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Wang, Yixin

Talentov, Dimitri

Mazumder, Abhijit

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cccagcgacg acgccaccgc gcttatgacc gacccaagc tcatcacctg gtctccggtg 240
tgtcgcaacg atgttcctg gaactttgag aagttcctgg tgggccctga cgggtgtgcc 300
ctacgcagggt acagccgccg ctccagacc attgacatcg agcctgacat cgaagccctg 360
ctgtctcaag ggcccagctg tgcctagggc gccctccta ccccggtgc ttggcagttg 420
cagtgtgct gtctcggggg ggtttcatc tatgagggtg ttctcttaa acctacgagg 480
gaggaacacc ttgatcttac agaaaatacc acctcgagat ggggtgctgg cctgttgatc 540
ccagtctctg ccagaccaag gcgagtt 567

<210> 36

<21 1> 165

<212> DNA

<213> Homo sapiens

<400> 36

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ggaggataaa gtcagccatg tgagcactgg ggggtgggcc agtttggagc tcctggaagg 120
taaagtcctt cctgggggtgg atgctctcag caatatttag tactt 165

<210> 37

<211> 481

<212> DNA

<213> Homo sapiens

<400> 37

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caattctgtc ccaatcttac cagatgctac tggacttgaa tggtaataa aactgcacag 120
tgctgttggg ggcagtgact tctttgagt taggttaata aatcaagcca tagagcccct 180
cctggttgat actgttcca gatggggcct ttggggctgg tagaaatacc caacgcacaa 240
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caatgactgc ttgtttgga tgcctcagcc caggtcagct gttactttc ttcagatgtt 360
tatttgcaaa caaccatttt ttgtctgtg tcccttttaa aaggcagatt aaaagcacia 420
gcgtgtttct agagaacagt tgagagagaa tctcaagatt ctacttggtg gttgcttgc 480
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<210> 38

<211> 461

<212> DNA

<213> Homo sapiens

<400> 38

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gaaggaggag ggtcagggt ggccttctc tgtcatcac tctgctaggt tgggggcccc 180
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ttctctttt ttttttgc cacattggca gagatgggac ctaagggtcc caccctcac 360
cccacccca cctcttctg atgtttgaat tcttcagta gctgtgatg ctggttgagc 420
aggttgagt caaatgtac ttgctccat tgttaattga g 461

<210> 39

<211> 479

<212> DNA

<213> Homo sapiens

<400> 39

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gtgctctcca acctgtctc ctgaaaaacc aaggccccct tccccacct ctccatggg 180
gtgagacttg agcagaacag gggcttcccc aagtggcca gaaagactgt ctgggtgaga 240
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ttggggtaaa gacacctgga tcagactcca agggctgccc tgagtctggg acttctgcct 360
ccatggctgg tcatgagagc aaaccgtagt cccctggaga cagccactcc agagaacctc 420
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<210> 40

<211> 529

<212> DNA

<213> Homo sapiens

<400> 40

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caggctgcag tagatggtcc catggacaag aaggaagagt aagggcctcc ttctccct 180
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cacgcctgag cgtggagagc acgagttagt ttagtccgg ctgcggtgg ggtgacttc 480
ctgttggtt gagcccttt tgtttgccc ctctgggtgt tttcttgg 529
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<210> 41

<211> 195

<212> DNA

<213> Homo sapiens

<400> 41

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ggatgaaagt tccccatca gtccccccag tacctccaag caagtagctt tccacattg 180
tcacagaaat cagag 195
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<210> 42

<211> 301

<212> DNA

<213> Homo sapiens

<400> 42

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gcaatgtcac aacctctctg atctgtgct cagcatgatt cttaataga agttttatt 120
ttcgtgact ctgctaata tgtgggtgag ccagtggaa agcgggagcc tgtgctggt 180
tgcagattgc ctctaata cgcggtcaa aaggaaacca agtggtcagg agttgttct 240
gaccactga tctctactac cacaaggaaa atagtttagg agaaaccagc tttactgtt 300
t 301
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<210> 43

<211> 562

<212> DNA

<213> Homo sapiens

<400> 43

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gcctgctgac gccagcaagg tgggtggcaa gggcctgggg ctgagcaagg cctacgtagg 120
ccagaagagc agcttcacag tagactgcag caaagcaggc aacaacatgc tgctggtggg 180
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ccccggccca ggcgccttg gccgcccgc tgtactgca gctgccctg cctgtgccg 480
tgctgcgtc acctgcctcc ccagccagcc gctgacctct cggtttcac ttgggcagag 540
ggagccattt ggtggcgctg ct 562
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<210> 44

<211> 333

<212> DNA

<213> Homo sapiens

<400> 44

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acagcagtgag agacggcagt tctgctactg cgaattgatg acatcgttc aggccacaaa  180
aagaaaggcg atgaccagag ccggcaaggc ggggctcctg atgctggcca ggagtgagtg  240
ctaggcaagg ctacttcaat gcacagaacc agcagagtct cccctttcc tgagccagag  300
tgccaggaac actgtggacg tctttgttca gaa                               333
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<210> 45

<211> 411

<212> DNA

<213> Homo sapiens

<400> 45

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tgcccaatgc tctttatcta cgtgaccgc ggctgcctga ccttcgtctc caagttagat  180
attccaaaac agagcatcca acgcaacatg tctgcatgg aacgcttccg caacatggac  240
aagagagcca caactgagga ccgcaacacg gccttgagga cgctgcacca gaatagcatc  300
actcaagtct ctatttatga ggtggacaag caagattgtc gcaaatttg cactactggc  360
atcgatggag ccatgacaat ttgggatttc aagaccctcg agtcttccat c           411
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<210> 46

<211> 411

<212> DNA

<213> Homo sapiens

<400> 46

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ccgtccttaa gtgtgtcatt tgtctcagag aacagcgtcg tggctgctgg ccatgactgc  120
tgcccaatgc tctttatcta cgtgaccgc ggctgcctga ccttcgtctc caagttagat  180
attccaaaac agagcatcca acgcaacatg tctgcatgg aacgcttccg caacatggac  240
aagagagcca caactgagga ccgcaacacg gccttgagga cgctgcacca gaatagcatc  300
actcaagtct ctatttatga ggtggacaag caagattgtc gcaaatttg cactactggc  360
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<210> 47

<211> 555

<212> DNA

<213> Homo sapiens

<400> 47

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gtgaggagga ggcgtccatc aacctcaatg ccattaacaa gtgcccctg ctgaagccct  180
gggccctgac cttctctac ggccgagccc tgcaggcctc tgccctgaag gcctggggcg  240
ggaagaagga gaacctgaag gctgcgcagg aggagtatgt caagcgagcc ctggccaaca  300
gccttgctg tcaaggaaag tacactccga gcggtcaggc tggggctgct gccagcgagt  360
ccctctcgt cttaaccac gcctattaag cggaggtgtt cccaggctgc cccaacaac  420
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tccaggccct gccccctccc actcttgaag aggaggccgc ctctcgggg ctccaggctg 480
gttgccccg gctctttctt ccctcgtgac agtggtgtgt ggtgtcgtct gtgaatgcta 540
agtccatcac ccttt 555

<210> 48

<211> 550

<212> DNA

<213> Homo sapiens

<400> 48

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atggcacagg aggaaagagc atctacggtg agcgcttccc cgatgagaac ttcaaactga 120
agcactacgg gcctggctgg gtgagcatgg ccaacgcagg caaagacacc aacggctccc 180
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aagttctaga gggcatggag gtggtgcgga aggtggagag caccaagaca gacagccggg 300
ataaacccct gaaggatgtg atcatcgag actgcggcaa gatcgagggtg gagaagccct 360
ttgccatcgc caaggagtag ggcacaggga catctttctt tgagtaccg tctgtgcagg 420
ccctgtatgc cgccacaggc ctctgagctg cactggcccc ggtgctggca tctggtggag 480
cggaccact cccctcacat tccacaggcc catggactca ctttgtaac aaactctac 540
caacactgac 550

<210> 49

<211> 198

<212> DNA

<213> Homo sapiens

<400> 49

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tacggtgagc gttccccga tgagaacttc aaactgaagc actacgggcc tggctgggtg 120
agcatggcca acgcaggcaa agacaccaac ggctccagt tcttcatcac gacagtcaag 180
acagcctggc tagatggc 198

<210> 50

<211> 493

<212> DNA

<213> Homo sapiens

<400> 50

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tacctccaag tggtaacagg actgatgccg aaatgtcacc agtccttc agtcttcaca 120
gtggagaact ctggccaaa ggttttggg gggaggagga ggaaccagc tttctggtta 180
aggttaacac cagatggtgc cctcattgg tgccttta aaaaatatt actgtagtcc 240
aataagatag cagctgtaca aaatgactaa aatagattgt aggatcatat ggcgtatc 300
ttggttcac ttcaaatca gagactgagc ttgaaacta gtggtttta atcaaagttg 360
gctttatagg aggagtataa tgtatgact actgtttta aagaattagt gtgagtgtgt 420
ttttgatga atgagcccat tcatgtaag tcttaagctt gttggaaata atgtacccat 480
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<210> 51

<211> 509

<212> DNA

<213> Homo sapiens

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<221> misc_feature
<222> (245)..(246)
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<221> misc_feature
<222> (248)..(249)
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cttagaagt gacgtgtaat ttctgaacc atgtttcatc tgtataaaag aacatctgca 120
ccagttttc tctgtcccct cagaagagcc aaactttgag tttatgtct gttgtcatt 180
gataaatc aataaatctt ttatacaan tnnaaaaaa aaaaanannn nannannrmn 240
aananncnna ttgatcttt caagatgcat tccagatgaa ctgctaggtg agggggaagc 300
ttcatcttg ttacctgata gaatagcttt tcttatgaga tatatataat gtgatactat 360
gtttggatat ttttggtctt aaagcaagac tcagtgggtg atcttcatta aaagcttcct 420
ttaaaaaag tacagagtta ctaaaaaac aagtaccaa acaatcaagt tgggccaacc 480
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<210> 52
<211> 453
<212> DNA

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<213> Homo sapiens

<400> 52

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tgcccaggag gggctgagca ccagccatat cttttgcttt ggttcacatg atgatacctg  180
cttttctcag gcctgctaga ggcatccaac gccctggttt gtaaatagca acctaaaggc  240
gtattttggc actggtctgg ggacattccc catctctcat cctttttccc ccttcacaga  300
tggtggtggg ctctgctcta caaagaggac tctgatgtta ctcttgagct tatgagccag  360
agagctgaaa accgcaggct tgttgtgtta agttacaagg aaaatggatt tggtaattaa  420
aattagaaga aacacacctt caaacttcaa ctt                               453

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<210> 53

<211> 398

<212> DNA

<213> Homo sapiens

<400> 53

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ggcaaagaca gcaacaacct gtgcctgcac ttcaaccctc gttcaacgc ccacggcgac  180
gccaacacca tcgtgtgcaa cagcaaggac ggcggggcct gggggaccga gcagcgggag  240
gctgtcttc ccttcagcc tggaagtgtt gcagagggtg gcatcacctt cgaccaggcc  300
aacctgaccg tcaagctgcc agatggatac gaattcaagt tcccaaccg cctcaacctg  360
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<210> 54

<211> 446

<212> DNA

<213> Homo sapiens

<400> 54

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acgcccgata cgctgagtgt ggtttgcgga tcctggcctt cccgtgtaac cagttcggga   60
agcaggagcc agggagtaac gaagagatca aagagttcgc cgcgggctac aacgtcaaat  120
tcgatatgtt cagcaagatc tgcgtgaacg gggacgacgc ccacccgctg tggaagtgga  180
tgaagatcca acccaagggc aagggcattc tgggaaatgc catcaagtgg aacttcacca  240
agttcctcat cgacaagaac ggctgcgtgg tgaagcgcta cggacccatg gaggagcccc  300
tggtgataga gaaggacctg cccactatt tctagctcca caagtgtgtg gccccgcccg  360
agcccctgcc cagcccttg gagccttcca ccggcactca tgacggcctg cctgcaaacc  420
tgctggtggg gcagacccga aatcc                               446

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<210> 55

<211> 456

<212> DNA

<213> Homo sapiens

<400> 55

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aagacgacat gttcatctg ttgtctggag agggacaagt ttgataacaa gacagtgtca   60
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gtccgcgtga agaacaagac cgactacacg ggccctgaga gctacgtggc ccagatgatc  180
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ctggtgtccc acctcactgc ccagctcaac gagctcaagg agcagatgac ggagcagcgg  360
aaacgcaggc aacgcctagg ctttgtgga gtccagaact gcattagccg ctgaggagag  420

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ccaccgaagg ccccaacagg ggatgctcat cactgg 456

<210> 56

<211> 510

<212> DNA

<213> Homo sapiens

<400> 56

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ggacctgcct ctccaggc ttctgggga agagtgtac gccaggcaa caagggtga 480
gctgcgcttg cgtggctgtt tcatgaccgc 510

<210> 57

<211> 522

<212> DNA

<213> Homo sapiens

<400> 57

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attttcgt ccttttct ccactcca ctgacaaacg tcccagcgg ttccactg 180
tgggttcag gtgtttcaa gcacaacca ccacaacaag caagtgcatt ttcagtcgtt 240
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gacacctct gccagtaat gacgtgtgtg gctgggacct tctttattct gtgttaatgg 480
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<210> 58

<211> 356

<212> DNA

<213> Homo sapiens

<400> 58

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tcttaggcatt tcttaaaatt caagaaaata aaactaagct ctttgagaac tgcttctaag 180
atgccagcat atactgaagt cttttctgt accaaattg tacctctaag tacatatga 240
gatattgtt tctgtaata acctatttt ttctctatt ctctccaatt tgtttaaaga 300
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<210> 59

<211> 381

<212> DNA

<213> Homo sapiens

<400> 59

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 ctctagtggg acagcccaga gcctggctgc cccatcatgt ggccccaccc aatcaaggga 180
 agaaggagga atgctggact ggaggcccct ggagccagat ggcaagaggg tgacagcttc 240
 ctttcctgtg tgtactctgt ccagttcctt tagaaaaaat ggatgccag aggactccca 300
 accctggctt ggggtcaaga aacagccagc aagagttagg ggccttaggg cactgggctg 360
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<210> 60
 <211> 441
 <212> DNA
 <213> Homo sapiens
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 gacacctgg atccggccct gctacggcca ggacggctgg accgtaaaat tgaattcca 180
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 tctgaggagg ttgacttga agactatgtg gcccgccag ataagatttc aggagctgat 300
 atcaactcca tctgtcagga gagtggatg ttggctgtcc gtgaaaaccg ctacattgtc 360
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 gagttttaca agtgacctt c 441

<210> 61
 <211> 442
 <212> DNA
 <213> Homo sapiens
 <400> 61

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 gatgatgggg ccttgacgta agcagcctga caggagcaat ggccaccagc aggtgaaggg 180
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 ccagaggaaa gctggcagca ggcgcctcct ccccaacgc atcccagcca gtgccatgtc 300
 ctctgcaggt ggagtactg gcctactcct tcccatgag ccttcctgt ctgcactgcc 360
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<210> 62
 <211> 524
 <212> DNA
 <213> Homo sapiens
 <400> 62

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 atggcaaaat aatcattgaa aataagccta agaaagaatt aattaaagt ctgattcaga 180
 ggggatatga ttcggtcct gtgaaggcct ggaaagaagc ccagcaaaag gtccagatg 240
 aagaagaaaa tgaagagagt gacaacgaaa aggaactga aaagagtgc tccgtaacag 300
 attctggacc aacctcaac tatctcttg atatgccctt ttgtattta accaaggaaa 360
 agaaagatga actctgcagg ctaagaaatg aaaaagaaca agagctggac acattaaaaa 420
 gaaagagtcc atcagatttg tggaagaag acttggtac atttattgaa gaattggagg 480
 ctgttgaagc caaggaaaaa caagatgaac aagtcggact tcct 524

<210> 63
<211> 416
<212> DNA
<213> Homo sapiens
<400> 63

gagggacat gtgtcacttg tgtttgctc ttgtcccacg tgtttccac ttgcatatg 60
agccgtgaac tgtgcatagt gctgggatgg aggggagtgt tgggcatgtg atcacgcctg 120
gctaataagg ctttagtgta tttatttatt tatttatttt atttgtttt cattcatccc 180
attaatcatt tccccataac tcaatggcct aaaactggcc tgacttgggg gaacgatgtg 240
tctgtatttc atgtggctgt agatcccaag atgactgggg tgggaggtct tgctagaatg 300
ggaagggtca tagaaaggcg cttgacatca gttcctttgt gtgtactcac tgaagcctgc 360
gttggtccag agcggaggct gtgtgcctgg gggagttttc ctctatacat ctctcc 416

<210> 64
<211> 556
<212> DNA
<213> Homo sapiens
<400> 64

tacagcgtat aggtgcagcc ctgtcacaac accaacagaa gtagcagcct ctgggtgcag 60
tcaccacac cccaaagctg gaaggatctg gttcaacata gcacaaaccc ttaggaaaaa 120
tgaaattaac atcactgatg tgtaaccag taaaatctcc cttttcggg tgtgtatgtg 180
ggcatgtgcc catttctatg tgtgtgtcta cgtgcagctc actaccaaca gcctcatgtg 240
cacttgacct gacagtgtc gctgagaact ctcaccaggt tggcgctga atgccttact 300
ctcagcagtc agaggcttgc ttgctctgtg cagattttta atttctttt ttggccctag 360
gctggttggg acctctacag cttcattctt tcacattaaa tagtgacctt ttccagtatt 420
ttccctcttc cctttataa attatgctaa agccacaaag cacatttttg gggatcatag 480
aagggtgggg ttccagaaag gcactctgtg gatggttcca ttgatgtggg atttccctac 540
ttgctgtatt ctcagt 556

<210> 65
<211> 453
<212> DNA
<213> Homo sapiens
<400> 65

ttgggggtata ggtctcatct cttcaggctc tcatgatacc acctttactg tgcttatttt 60
tttaagaaaa aagtgttgat caaccattcg acctataaga agccttaatt tgcacagtgt 120
gtgacttaca gaaactgcat gaaaaatcat gggccagagc ctcggcccta gcattgcact 180
tggcctcatg ctggagggag gctgggcggg tacagcgagg aggaggagg aggccaggcg 240
ggcatggcgt ggaggaggag ggaggccggg cggtcacagc atggaggagg aggaggcg 300
tgctggtgtt cttattctgg cggcagcgcc ttctctcca tgtttagtga atgacttttc 360
tcgcattgta gaattgtata tagactctgg tgttctattg ctgagaagca aaccgccctg 420
cagcatccct cagcctgtac cggtttggt ggc 453

<210> 66
<211> 533
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature

<222> (360)..(361)

<223> n is a, c, g, or t

<400> 66

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caatgggaag cccgggggag gggtttggca tgaggaagcg ttggttacag cagctgattg  120
gctgcagcca agactgtgaa aggataaaga ggcgcgagcg ggaattgggg tctgctctaa  180
gctgcagcaa gaaaaactgt gtgtgagggg aagaggcctg ttctgctgtc gggctcttag  240
ttcttgacag ctctttaaga gtctgcactg gaggaactcc tgccattacc agtcccttc   300
ttgcagaagg gagggggaaa catacattta tcatgccag tctgttgcac gcaggctttt   360
nggcttccta ccttgcaaca aaataattgc accaactcct tagtgccgat tccgccaca   420
gagagtcctg gagccacagt ctttttgct ttgcattgta ggagagggac taagtgctag   480
agactatgtc gcttctctga gctaccgaga gcgctcgtga actggaatca act       533
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<210> 67

<211> 408

<212> DNA

<213> Homo sapiens

<400> 67

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gtaaaccaca tctttttgc actttttta taagcaaaaa cgtgccgttt aaaccactgg   60
atctatctaa atgccgattt gagtcgcga cactatgtac tgcgttttc attctgtat   120
ttgactattt aatcctttct actgtcgcct aaatataatt gtttagtct tatggcatga   180
tgatagcata tgtgttcagg ttatagctg ttgtgtttaa aaattgaaaa aagtggaaaa   240
catctttgta catttaagtc tgtattataa taagcaaaaa gattgtgtgt atgtatgtt   300
aatataacat gacaggcact aggacgtctg ctttttaag gcagttccgt taagggttt   360
tgtttttaa ctttttttg ccatccatcc tgtgcaatat gccgtgta       408
```

<210> 68

<211> 526

<212> DNA

<213> Homo sapiens

<400> 68

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ccctttggtc tgggtccagt tctggaaaac agtcagggtc agctgatcta cgagtctgcc   60
atcacctgtg agtacctgga tgaagcatal ccagggaaga agctgttgcc gcatgacccc  120
tatgagaaag ctgccagaa gatgatctta gattgtttt ctaagggtcc atccttggtg  180
ggaagcttta ttagaagcca aaataaagaa gactatgctg gcctaaaaga agaatttcgt  240
aaagaattta ccaagctaga ggagggtctg actaataaga agacgacctt ctttggtggc  300
aattctatct ctatgattga ttacctatc tggccctggt ttgaacggct ggaagcaatg  360
aagttaaatg agtgtgtaga ccacactcca aaactgaaac tgtggatggc agccatgaag  420
gaagatccca cagtctcagc cctgcttact agtgagaaag actggcaagg ttctctagag  480
ctctacttac agaacagccc tgaggcctgt gactatgggc tctgaa       526
```

<210> 69

<211> 432

<212> DNA

<213> Homo sapiens

<400> 69

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gccacagact gaactgcag ggagtgcagc aggaaggaac aaagacaggc aaacggcaac   60
gtagcctggg ctactgtgc tggggcatgg cgggacctc cacagagagg aggggaccaa  120
ttctggacag acagatgttg ggaggataga gaggagatgc cacttctac tcaccactac  180
cagccagcct ccagaaggcc ccagagagac cctgcaagac cacggaggga gccgacact  240
```

gaatgtagta ataggcaggg ggccctgccca ccccatccag ccagacccca gctgaacct 300
gcgtcagggg cctagagggtg gagttcttag ctatccttgg ctttctgtgc cagcctggct 360
ctgccccctcc cccatgggct gtgtcctaag gcccatttga gaagctgagg ctagttccaa 420
aaacctctcc tg 432

<210> 70

<211> 450

<212> DNA

<213> Homo sapiens

<400> 70

gaatttcttg gtgattacag gtgggatcca actgcaaatg aagatccaga atggatactt 60
gttgagaaag acagattcgt gaatgattat gacaaagata acgatggcag gcttgatccc 120
caagagctgt taccttgggt agtacctaata aatcagggca ttgcacaaga ggaggcactt 180
catctaattg atgaaatgga ttgaatggt gacaaaaagc tctctgaaga agagattctg 240
gaaaaccggg acttgtttct caccagtga ggcacagatt atggcagaca gtcctatgat 300
gactatttct atcatgatga gctttaatct ccgagcctgt ctacagtagag tactggctcc 360
ttttataatt tgttaccagc ttacttttg tgataaaata ttgatgtgtg attttacact 420
cttaagtctt aaccacagtc agaattatct 450

<210> 71

<211> 477

<212> DNA

<213> Homo sapiens

<400> 71

gatattttc caaacgtatt gagcaacaaa atattaatat tgtgccatat gacaacaaag 60
tctttcctaa atactccatc tgttttagtac tgtattgttg aatatttgag ttctatttcc 120
agacttgaaa acatggagga tttagagat gcctgaacaa tattatttaa gtagtatgtg 180
accgagctat aaatttttg ttttgttct aagtagattt aatttgggaa ctgacaggac 240
aatgtttta ggtttagcat ttgttttaa aacctttaa gaaacctta gaaggactta 300
gacctcacat attaatgttg agaagtctg cttaatttta aaatggtttc tataaagggt 360
tttattgtat gaaatagaac ttatatattt tgcataatgta tagaggataa ttatatttaa 420
tgtataacta tagcattatg gtgagtggaa ttgacattg tccaaacctt ttccatt 477

<210> 72

<211> 497

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (432)..(432)

<223> n is a, c, g, or t

<400> 72

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ccagctgcgg atgggagctg ttcttgaca gccttctact gcctgggaag tgatggaaca 120
ggaactcagg gtgcccttac cccctccca gacctgtcc ctttcttga ctgacagagc 180
accatccagg caaaattaga gcgccaaatg gtttcttct caatcttaa gcagtatacc 240
ttccacagg ctgctctgtg tcctgccac tctgagttat ccagaaacca ccactacaa 300
atgaggggac tcactagaa gacctctaag gtccccttt ggctctgagg ggtctctaat 360
aatccccact tggaattcag caccgaagg aaattatggg tatgtgagcc ataatatgat 420

ggccagcagg tngcgtgcc ttccacccat ggtgatggat ggtttggaaa gggaatgttg 480
gtgccttttg tgccaca 497

<210> 73

<211> 481

<212> DNA

<213> Homo sapiens

<400> 73

gatgataatc cggaccatgc tgtatactcc acaggaaatg aaacagatca ttaaaatccg 60
tgcccagacg gaaggaatca acatcagtga ggaggcactg aaccacctgg gggagattgg 120
caccaagacc acactgaggt actcagtga gctgctgacc ccggccaact tgcttgctaa 180
aatcaacggg aaggacagca ttgagaaaga gcatgtcgaa gagatcagtg aacttttcta 240
tgatgccaaag tcctccgcca aaatcctggc tgaccagcag gataagtaca tgaagtgaga 300
tggtgaggt ttcagcagc aagagactcc ccaggtgtgc ctggcctggg tccagcctgt 360
gggcgcttgc ccctgggctt ggggctgccg tccccactca ggcgtgggct gcagcgctgt 420
cagttcagtg tggaaagcat ttcttttaa gttatcgtaa ctgttcctgt ggttgctttg 480
a 481

<210> 74

<211> 469

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (40)..(40)

<223> n is a, c, g, or t

<400> 74

gacatccttc ttgacagaaa ctctatgaaa aagtttttgn ctgacacaga acaaacctga 60
aagtagtata tactttctaa atactacttt gcttttcagt agtggatttg atattataa 120
tgtttcttaa agcttgcaac ttttcagca acgtttaaaa atagattaac ctggaataac 180
ttactgttt gctgctaaaa tactcaagat ttgcccattt taaacaacc agtccctgtg 240
atacaacttt gaaaaaactt ttaaaatct ctgatgtatg ggctctttt tcccataag 300
aattatgtac atctgtgatg ttttacaggg ggatccgctt taaacagtg tacatattgg 360
accacactga aatgtcatat atcctttctc tacttaaaat tggttattta ctgtgagttc 420
atttccgatg tgttcttggg ttgtgctgtt ttctgcctga agacgtgta 469

<210> 75

<211> 455

<212> DNA

<213> Homo sapiens

<400> 75

caaagtctcc ttttagtcta gataatcatt atttcatttt aaaattagtg ttttcatag 60
tttgactga tgcgtgtatg gatgtgtgtg agtcagtggg agcttattta aaaagcacct 120
tatcctttct ccataacct ttgtacacta aaaaatgaaa gaatttagaa tgattttgat 180
gatagcattc tcactaagac acatgagaat ttaactttat aaccgcgtga gttaagattt 240
aatcatagg ttttgatgct attgtgaag ttattttaa tcagaaacc ttgctgtgtg 300
gatacatagt aagtctcttc atttattact gcttgctgtg tgttatatct ggattatcaa 360
aagcaatagt gcaccaatta agatgtgctc aatcaggac taaatcata ggcaccacat 420
tttcatgtc agactagtta cttgttgat tctca 455

<210> 76
 <211> 525
 <212> DNA
 <213> Homo sapiens
 <400> 76

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tctggcatca gtttgctaca gtgagctcac atcaaatagg aaaatacttg aaatgcatgt    60
ctcaagctgc aaggcaaaact ccattcctca tattaaacta ttacttctca tgacgtcacc    120
atttttaact gacaggatta gtaaaacatt aagacagcaa acttgtgtct gtctctctt    180
tcatttcGC cgccaccaac ttactttacc acctatgact gtacttgta gtagagaat    240
tttctgaat catattgggg aagcagtgtat tttaaaacct caagttttta aacatgattt    300
atatgtctg tataatgttc agtttgtaac ttttaaaag ttggatgta tagagggata    360
aataggaaat ataagaattg gttattggg ggcttttta ctactgtat ttaaaaatac    420
aagggtattg atatgaaatt atgtaaattt caaatgctta tgaatcaaat cattgttgaa    480
caaaagattt gttgctgtgt aattattgtc ttgtatgcat ttgag                    525
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<210> 77
 <211> 397
 <212> DNA
 <213> Homo sapiens
 <400> 77

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ggagaacttg tctacaacca gggattgatt ttaaagatgt cttttttat ttactttt    60
tttaagcacc aaatttgggt gttttttt tctccctcc cGacagatcc catctcaaat    120
cattctgta accaccattc caacaggctg aggagagctt aaacaccttc ttctctggc    180
ctgtttctc tttttttt ttttttctg catcagtatt aatgttttg catactttgc    240
atctttatc aaaagtgtaa acittctttg tcaatctatg gacatgccca tatatgaagg    300
agatgggtgg gtcaaaaagg gatatcaaat gaagtgatag gggtcacaat ggggaaattg    360
aagtgtgtga taacattgcc aaaaatagtg gccacta                    397
```

<210> 78
 <211> 329
 <212> DNA
 <213> Homo sapiens
 <400> 78

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ctcttcgaga gaacctgtcg ccagtatgac aagctgcgta agcgggaggc ctctctggag    60
cagttccgca aggaggacat gtcaaggac aactttgatg agatggacac atccagggag    120
attgtgcagc agctcatcga tgagtacat gcggccacac ggccagacta catctcctgg    180
ggcaccagg agcagtgagt cccccaggac aggggaccct catctgcctt actggttggc    240
ccaagccctg cctgactgac cacccttca gagcacagat caggggacct acgcctctct    300
tttcatata catggactct ctgttgcc                    329
```

<210> 79
 <211> 535
 <212> DNA
 <213> Homo sapiens
 <400> 79

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ggagctggaa ctgtcacca aggccggctt ccgggccctt ctctctgccc cctggtacct    60
gaaccgtata tcctatggcc ctgactggaa ggatttctac gtagtgaac ccctggcatt    120
tgaaggtacc cctgagcaga aggcctgggt gattggtgga gaggcctgta tgtggggaga    180
atatgtggac aacacaaacc tgggtcccag gctctggccc agagcagggg ctgttgccga    240
```

aaggctgtgg agcaacaagt tgacatctga cctgacattt gcctatgaac gttgtcaca 300
 cttccgctgt gagggtgctga ggcgaggtgt ccaggcccaa cccctcaatg taggcttctg 360
 tgagcaggag ttgaacaga cctgagcccc aggcaccgag gaggggtgctg gctgtagggtg 420
 aatggtagtg gagccaggct tccactgcat cctggccagg ggacggagcc ccttgccttc 480
 gtgccccttg cctgcgtgcc cctgtgcttg gagagaaagg ggccggtgct ggcgc 535

<210> 80

<211> 537

<212> DNA

<213> Homo sapiens

<400> 80

ccaccgctgg ctgggaggag tcggagactg agacctacac agagggtggtg acagagtttg 60
 ggaccgaggt ggagcccagag ttggggacca aggtggagcc cgagtttgag acccagtttg 120
 agcctgagtt cgagaccag ctggaacccg agtttgagga agaggaggag gagggagaaag 180
 agggaggagat agccactggc caggcattcc ccttcacaac agtagagacc tacacagtga 240
 actttgggga ctctgagat cagcgtccta ccaagacccc agcccaactc aagctacagc 300
 agcagcactt cccaagcctg ctgaccacag tcacatcacc catcagcaca tggaaggccc 360
 ctggtatgga cactgaaagg aagggtggt cctgcccctt tgaggggggtg caaacatgac 420
 tgggacataa gagccagagg ctgtgtagag gctcctgctc cacctgccag tctcgtaga 480
 gatgggggtg ctgcagtgtt ggagtagggg cagagggagg gagccaaggt cactcca 537

<210> 81

<211> 483

<212> DNA

<213> Homo sapiens

<400> 81

ctgaagcgca gaaagctcgg ccggtacaac gaggaggagc gggctcagca ggaggccgag 60
 gccgcccagc gcctggccga ggagaaggcc caggccagct ccatccccgt gggcagccgc 120
 tgtgaggtgc gggcgccggg acaatcccct cgccggggca ccgtcatgta ttaggtctc 180
 acagatttca agcctggcta ctggattggt gtccgctatg atgagccact ggggaaaaat 240
 gatggcagtg tgaatgggaa acgctacttc gaatgccagg ccaagtatgg gcctttgtc 300
 aagccagcag tcgtgacggt gggggacttc ccggaggagg actacgggtt ggacgagata 360
 tgacacctaa ggaattcccc tgcctcagct cctagctcag ccactgactg cccctcctgt 420
 gtgtgcccatt ggcccttttc tctgacccc attttaattt tattcatttt ttctttgcc 480
 att 483

<210> 82

<211> 505

<212> DNA

<213> Homo sapiens

<400> 82

caaggtgaaa cactgcagtc ccggtgtggt ggctcccat gcaggacggg ccaggctggg 60
 agtgccgctt tctgtgcca aattcagtg ggactcagtg ccaggccct ggcacgagct 120
 ttggccttgg tctacctgcc aggcaggca aagcgccttt acacaggcct cggaaaacaa 180
 tggagtgagc acaagatgcc ctgtgcagct gcccgagggt ctccggccac cccggccgga 240
 ctttgatccc ccgaagtct tcacaggcac tgcacgggtt tgtctggcgc cttttcctc 300
 cagcctaacc tgacatcatc ctatggactg agccggccac tctctggccg aagtggcgca 360
 ggctgtgccc ccgagctgcc cccaccccct cacagggtcc ctgagattat aggtgcccag 420
 gctgaggtga agaggcctgg gggccctgcc ttccggggcg tcttgagccc tggggcaaac 480
 ctgtgacctt ttctactgg aatag 505

<210> 83
 <211> 299
 <212> DNA
 <213> Homo sapiens
 <400> 83
 tggccatccg ggacagtgcg cgacagggca agggccaggt ggagattgtc actgatgggg 60
 aggagcctgc tgagatgac caggtcctgg gcccgaagcc tgctctgaag gagggcaacc 120
 ctgaggaaga cctcacagct gacaaggcaa atgccaggc cgcagctctg tataaggtct 180
 ctgatgccac tggacagatg aacctgacca aggtggctga ctccagcccc ttgcccttg 240
 aactgctgat atctgatgac tgcttctgc tggacaacgg gctctgtggc aagatctat 299

<210> 84
 <211> 533
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (136)..(136)
 <223> n is a, c, g, or t
 <400> 84
 gaaaagtgcg tgcttcattt gaacaattca ttcagcagca gatggacttt cagtattta 60
 aaataaaatt ttgatccaaa gctcaggaca caaaccacag tggtaaaatt gagtagcata 120
 taatatcaga ctaaanntat ctgtaatttt ccacaacca gattgtatgt gttttatgtg 180
 tgtttaaata aatatgtagg atacacgtgt atacatacac ccatatacaa cagatccaag 240
 actggctgac ttcatttgaa atggttgaat ctgctgtgta ataaagtggg tcaacctga 300
 ttaggaactg aaatttagta gaagagggaa aaggagttaa tgaacaaat tatttagct 360
 acaaaccccg gtaatagagc acttggggga tgggatgggg tgggttggg agacaatcag 420
 aatggtaaat tgattaaatg ctctaaccc tgtaatttg tgcataagagc accctatgct 480
 gtggaaataa ctgtcttag attcatgt aactggactg ttcaggttc cca 533

<210> 85
 <211> 403
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (117)..(117)
 <223> n is a, c, g, or t
 <220>
 <221> misc_feature
 <222> (119)..(119)
 <223> n is a, c, g, or t
 <220>
 <221> misc_feature
 <222> (339)..(339)
 <223> n is a, c, g, or t
 <400> 85

gaaactgcgc attctctagt agtatatc gtgcctgtct tcaaaaacat ttccctttt 60
 atactcattc cccccaggca tggggtagtg tcagtcggac tgcacaggga acacgntnc 120
 cagtggcttt ggcccctact cgggaaacgt ctgcctgttc tcgatggga tggggtggct 180
 gccattccct tggtttctt aagcccttc taacgagagt ctcaacaag cggaggcgag 240
 ggccaattca accccattct ttccagcgcc ccgcaccata gcacctgcc acctgagaac 300
 caggaacgca ccctctctgt ggagctctga ctggtgtanc tggaaacaa cagcaactg 360
 caaacggacg aagagcctgc cgtgtgttaa tcattgcct tac 403

<210> 86

<211> 441

<212> DNA

<213> Homo sapiens

<400> 86

gttgtctgga aacctgctga ggaaattcaa aaacagcaac ggggtggcaga agctgtgggt 60
 ggtgttcaca aactctgcc tgttctcta caaatcacac caggacaatc atcccctgc 120
 cagcctgcct ctgctcggt actcgtcac catcccctct gagtccgaga acatccagaa 180
 agactacgtg ttcaagctgc acttcaagtc ccacgtctac tacttcaggg cggaaagcga 240
 gtacacgttc gaaagggtgga tggaaagtat ccgcagtgc accagctctg cctcgcgacc 300
 ccacgtgttg agccacaaag agtctctgt gtattgatgg ccggacacac tcgttccgc 360
 agtggctgct ttctggaag acgtttcct tctctgtat taatgaagcc tggtaaaatt 420
 aacacctgc tgaaatcaa a 441

<210> 87

<211> 467

<212> DNA

<213> Homo sapiens

<400> 87

tatatgactt ggcagatcaa ctacatgctg cagttgggtc ttccctgct gctgttgatg 60
 ctggctttgt tccaatgac atgcaagttg gacagacggg aaaaatagta gcaccagaac 120
 tttatattgc tgttggaata tctggagcca tccaacattt agctgggatg aaagacagca 180
 agacaattgt ggcaattaat aaagaccag aagctccaat ttccaagtg gcagattatg 240
 gaatagttgc agatttattt aaggtagttc ctgaaatgac tgagatattg aagaaaaat 300
 gaatcaggat catgccttaa aaagaaaact ttgttaaag tattccactg aaatcacaga 360
 tatttgtggg tattataaca atcattggaa agcatggaga gctacattc ataattgag 420
 ggaaaattc taacagatgc cagaatgctt gttatggga ttgctgt 467

<210> 88

<211> 527

<212> DNA

<213> Homo sapiens

<400> 88

cagacaacag cctggtggca gcgggccacg actgcttccc ggtgctgttc acctatgacg 60
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 gtggcttgac ggcccgag cgcttcaga acctggacaa gaaggcgagc tccgagggtg 180
 gcacggctgc gggcgcgggc ctgactcgc tgcacaagaa cagcgtcagc cagatctcgg 240
 tgctcagcgg cggcaaggcc aagtgtcgc agttctgcac cactggcatg gatggcggca 300
 tgagtatctg ggatgtgaag agctggagt cagcctgaa ggacctcaag atcaaatgac 360
 ctgtgaggaa tatgttcct tcctcctaac tgctggggaa gcggggagag gggtcaggga 420
 ggctaattgt tgctttctg aatgttctg gggtaccaat acgagttccc ataggggctg 480
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<210> 89
<211> 546
<212> DNA
<213> Homo sapiens
<400> 89

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tccagtgtcg gttttagaac aagaatgaag tcattttgga gtctttcatg tctaaaagat   180
ttaagttaaa aacaaagtgt tacttggaag gttagcttct atcattctgg atagattaca   240
gatataataa ccatgttgac tatgggggag agacgctgca ttccagaaac gtcttaacac   300
ttgagtgaat ctcaaagga ccctgacatt aaatgctgag gctttaatac acacatattt   360
tatcccaagt ttataatggt ggtctgaaca aggcacctgt aaataaatca gcatttatga   420
ccagaagaaa aataatctgg tcttggaact ttattttta tatggaaaag tttaaggac   480
ttgggccaac taagtctacc cacacgaaaa aagaaatttg cctgttcct ttgtgtacaa   540
ccatgc                                         546
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<210> 90
<211> 464
<212> DNA
<213> Homo sapiens
<400> 90

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gcaaaagatg caggtggatg tccctaggtc tgtttcaaa gaacttttc caagtgttg   180
ttttattat taagtgtcta cctggtaaat gtttttttg taaactctga gtggactgta   240
tcatttgcta ttctaaacca ttctacatt aagttaaat agtttctct cagctgtaaa   300
taacaggata cagaattaac aagagaaaat gtctaacttt ttaagaaaaa ccttatttc   360
ttcggttttt gaaaaacata atggaaataa aacaggatat tgacataata gcacaaaatg   420
acactctct aaaactaaat gggcacaaga gaatttcct ggga                               464
```

<210> 91
<211> 409
<212> DNA
<213> Homo sapiens
<400> 91

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atcccaaagc accaattact gccctctgcc tcagcagtac cagtataaga tgacattcca   60
aagactggag gcaactcagc ctgagttaat tcacaaaatt atgccatgct ggggcttgag   120
cttgagcttg ggcttaggct tgggctcagc ttgtaccct caggcatctc ctttccttc   180
ctgtcttct ctccctctc ctctgtgca gcatgattt cttaatcttc agacactcac   240
tatttcatg aacagttacc ctctgtcccc acaaccaaag acaactcatg gcctccttg   300
gcccttgtgt aacattgcaa acctgtggct ttgcaaatg taccagggtc acaaggggat   360
tttttttt tttagcaatga tatccctgtc tgggtcactt ttaagctt                               409
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<210> 92
<211> 481
<212> DNA
<213> Homo sapiens
<400> 92

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athttcctgt acatgggagt cacctccctt aacgggatcc agttctatga gcggtctcat 120
ctcgtctca tgccgcccac acaccacca gatgtcactt acgtcaagaa ggtccggacc 180
ctccgtatgc acctgttac ggccctgcag ctgctctgcc tggccctgct ctgggcccgc 240
atgtccacag ctgcctccct ggccctcccc ttcacctca tctcacagt gccgctccgc 300
atggtgggtgc tcacctgat cttaccgac cgagagatga aatgtctgga tgtaacgag 360
gcagagccgg tgttgatga gcgggagggt gtggacgagt acaatgagat gccatgcct 420
gtgtagccgc caccgagga cagccgagg accgatggac gaggggacag gctggtggga 480
t 481

<210> 93

<211> 393

<212> DNA

<213> Homo sapiens

<400> 93

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ggcgcaaggc ctctctgcac tggtagacgg gcgagggcat ggacgagatg gagttaccg 120
aggccgagag caacatgaac gacctggtgt ccgagtacca gcagtaccag gacgccacgg 180
ccgaggaaga gggcgagatg tacgaagacg acgaggagga gtcggaggcc caggggccca 240
agtgaactg ctgcagctg gagtgagagg caggtggcgg ccggggccga agccagcagt 300
gtctaaacc ccgagccat ctgtctgccg acacctgct tccccatcg ccctagggct 360
ccctgcccgc cctctgcag tatttatggc etc 393

<210> 94

<211> 564

<212> DNA

<213> Homo sapiens

<400> 94

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ctgcggccac accacgactc atccacctc accctcaacg ttgccctcaa ccacaagggc 120
ctggactatg agggaggtgg ctgccgttc ctgcgtacg actgtgtgat ctctccccg 180
aggaagggtt gggcactcct gcacccggc cgcctcacc actaccacga ggggctgcca 240
acgacctggg gcacacgcta catcatggtg tctttgtcg accctgaca ctcaaccact 300
ctgccaaacc tgccctgcca ttgtgcctt ttggggggcc tggcccccgt cctgggagtt 360
gggggatggg tctctctgc tcccacttc ctgagttcat gtccgcgtg cctgaactga 420
atatgtacc ttgtcccaa gacacggccc tctcaggaag ctcccgaggt cccgcctct 480
ctctccgcc cacaggggtt cgtgggcaca gggcttctgg ggactccccg cgtgataat 540
tattaatgt ccgagctc actc 564

<210> 95

<211> 474

<212> DNA

<213> Homo sapiens

<400> 95

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caggaaagt tggaagagag agtggctgct ttcaaaaatt tcagtatga aatcaggcac 180
aacctctcag aagtgtctt tgccaccatg aacatctgt tcacacagtt taagaggctc 240
aaggggacaa gtccatctc gtcatccagg cccagcgag tcatcgagga ccgcgactct 300
caactccgaa gtcaagccc cactctgatt accttctgt gaatgatacc ataccgaacg 360
tctggggaca ccaatgcgag gctggtgcag atggaggtcc tcatgaatta agtccatgc 420

tttgtgggag tctgggtcgg cacactgtca gtacatcagg cacatgggcc cact 474

<210> 96

<211> 448

<212> DNA

<213> Homo sapiens

<400> 96

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cccagactgg attggaaaag tgcattgtgg gggcctcggg gctgtccca cgtgtccct 120
ttgccacaag tctgtggggc aagaggctgc aatattccgt cctgggtgtc tgggctgcta 180
acctggcctg ctcaggcttc ccacctgtg cggggcacac cccaggaag ggaccctgga 240
cacggctccc acgtccaggc ttaagggtga tgcactccc gcacctccag tcttctgtgt 300
agcagcttta acccacgttt gtctgtcacg tccagtccc agacggctga gtgacccaa 360
gaaaggcttc ccgacaccc agacagaggc tgcagggtg gggctgggtg aggggtggcg 420
gcctgcgggg acatttact gtgctaaa 448

<210> 97

<211> 271

<212> DNA

<213> Homo sapiens

<400> 97

tcacccttct acagcagcta actagagtcc taactaatgg gatccagcag ggccatttct 60
ccagagggcc agtatctat taggagactc ttggaattct taggttctac tcaagagtgg 120
aaggaccaat cacctctgat attctgtgga aggttttggg gtcaaattct gccctctgca 180
ttctgtgcaa cttgtataaa agtcaagtta gtattacatg aatttggggt agggttagt 240
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<210> 98

<211> 344

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (106)..(106)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (108)..(113)

<223> n is a, c, g, or t

<400> 98

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tactttaga aaaacctgt cacaactgat ttgaatgtc ctatntnnn nnnctttgac 120
tttgatattg gcttgaatg tctctttca tcatatgtaa tatcagtga acaggcagcg 180
ctactcaagt cctaaggatt cctcagtgat cagtgatcca gggccgttca tgaaccactg 240
ggctggattt gactgttag tgtggcagtt aatgcccctc aagaaatcaa aggatgtctt 300
ataagtgtct tcaaaaaaa agcaaatgct gaaatcctat tggc 344

<210> 9?

<211> 497

<212> DNA

<213> Homo sapiens

<400> 99

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agctcggcgc cacctccgcc tcccttcag agcctgtcc ccgccctctc tgctcgtgc   120
attgtggtgt tctcttctca aggctttgaa atctcccctt gactgagat tagtcgtcag   180
atctctcccc gtctccctcc caacttatac gacctgatt ccttaggacg gaaccgcagg   240
cacctcgcgc gggcgcttta ctcccgctgc ttgttctgtc cctccctcg gaccaaacag   300
tgctcatgct tcaggacctt gttgtcgaa gatgttggtt tcccttctc tgtattttat   360
ataaaaataa ttatcaaaa ggatatttta aaaaagctag tctgtcttga aacttgttta   420
ccttaaaatt atcagaatct cagtgtttga aagtactgaa gcacaaacat atatcatctc   480
tgtaccattc tgtacta                                     497
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<210> 100

<211> 540

<212> DNA

<213> Homo sapiens

<400> 100

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agtactggct gttgggtatg gagaaaaaaa tgggatccct tactggatcg tgaaaaactc   120
ttggggctcc cagtggggaa tgaacgggta ctctctcgc gagcgcggaa agaaccatgtg   180
tggcctggct gcctgcgcct cctaccccat cctctggtg tgagccgtgg cagccgcagc   240
gcagactggc ggagaaggag aggaacgggc agcctgggccc tgggtggaaa tcctgccctg   300
gaggaagttg tggggagatc cactgggacc cccaacattc tgccctcacc tctgtgcca   360
gcctggaac ctacagacaa ggaggagtc caccatgagc tcaccctgt ctatgacgca   420
aagatcacca gccatgtgcc ttagtgtcct tcttaacaga ctcaaaccac atggaccacg   480
aatattcttt ctgtccagaa gggctacttt ccacatatag agtccaggg actgtctttt   540
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<210> 101

<211> 329

<212> DNA

<213> Homo sapiens

<400> 101

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aagaagtacg aatcttatt ttctgtcct gcccgtgagg tgggggggac cgggccctc   180
tctagggacc cctcgcccca gcctcattcc cactctgtg tccatgtcc cgtgtctcct   240
cggtcgcccc gtgtttgcgc ttgacctgt tgactgttt gcatgcgccc gaggcagacg   300
tctgtcaggg gcttgattt cgtgtgccg                                     329
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<210> 102

<211> 540

<212> DNA

<213> Homo sapiens

<400> 102

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gcagcctgac ctctagccct ggtggcagag gtcctcagc tgcgaggcta attgggtgac   120
caccgatcc agctgcggtt aatccagctt gggcctgtct gactgcgat cctctgggc   180
tctcctagga tcccccatg ccccgtaaga ggtggaagac gttccttc aggacagcag   240
gctttggagt ccgacacccc cagcctgcct ttgccaccag cccaaccct gcagagatat   300
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gaggcttgac agagtctgcc cctccccca ctgcaccca agagagagag cccagccag 360
 cggaacagtt tctattacc cctccctgcc ccagaccca tgtgatttct gctttcttct 420
 ttagcaagat attctgggtt ctgataagg aagagtctct aatgagcccc cgagccccag 480
 tctcttcaga ctcattggatt ggtctgaggg gtctgaacgt ctctagcca atcagaactg 540

<210> 103

<21 1> 513

<212> DNA

<213> Homo sapiens

<400> 103

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 ttttaagt atccttacag tgggtttta tgtacttta ttacagagct ccttggttt 120
 ttactctgc acttaattt ttttaataa catgatgatg gtacatttc ctctattgtc 180
 tagctaagg cttcgggtcc accagtaaat aagatcaaat gctcttaaat gttcctgtta 240
 ccatccta at gtaaatactg gattttctg tcatttagca ccatgctgct tctgtctgtc 300
 ttaagtctgg catlaagatc atgagccctt tttctccagt agtacaggct ttgaaaacta 360
 ctctattaa gttattgatg caatttgata tttttcata atctatattt aaacaaaatt 420
 acatcattgc atcatcttt ttaattcat ctccataaa actgcctta agtaccaga 480
 ttgctttgc caccattggc catactgtgt gtt 513

<210> 104

<21 1> 529

<212> DNA

<213> Homo sapiens

<400> 104

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 cagtacctca ctgttcgga ttgactgcc tgtatatgtt ttgtgaaatg gtcctgttt 120
 tgggtagggt acacgtggac tctagtatgt aaatgttact tgaatctgtg ctccataata 180
 gtgtgtggca tgtatgtgca gactcttgga tgctttatgc ctgcgcacca ggagccctgt 240
 cctcacgttc ccaggagggc ggcttcccc ttcgtaacca ggagacaagg cggccatgga 300
 ttggcccttg attctattt gctaattggaa gatagaaagg agagaagggt tttttttt 360
 tttaacattc tgaagatggt gctgtgtcaa gaaggacctt tttttcccc tctcccctat 420
 ttttaagta cttggagga ggagagggtg gtgacatgca tgggtgggat ctatggcctc 480
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<210> 105

<21 1> 524

<212> DNA

<213> Homo sapiens

<400> 105

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 ggcaggaagc agtggcttag gaaaagcaaa gagaaaagca tgcctttgc aacctgatca 120
 cacaatgat gaaaagaat agaacttct cattcatctt tgaataacgt ctcttgttt 180
 accctggtat tctagaatgt aaattacat aaatgtgttt gttccaatta gcttgttga 240
 acaggcattt aattaaaaaa tttaggttta aatttagatg ttcaaaagta gttgtgaaat 300
 ttgagaattt gtaagactaa ttatggaac tttagctagt attcaatata atgcattgtt 360
 tggttcttt taccaaatta agtgtctagt tcttgctaaa atcaagtcatt gcattgtgt 420
 tctaattaca agtatgttgt atttagagatt tgcttagatt gttgtactgc tgccatttt 480
 attggtgttt gattattgga atggtgcat attgtcactc ctcc 524

<210> 106
<211> 532
<212> DNA
<213> Homo sapiens
<400> 106

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gattgaaggg tacaatccgc atccaactat taaaatggaa atggctgttt aggggtgcttt 120
caaaggagct tgaaggatat tgtcagtcct taggggttgg gctggatgcc gaggtaaaag 180
ttctttttgc tctaaaagaa aaaggaacta ggtcaaaaat ctgtccgtga cctatcagtt 240
attaattttt aaggatgttg ccactggcaa atgtaactgt gccagttcct tccataataa 300
aaggctttga gttactcac tgagggtatc tgacaatgct gaggttatga acaaagttag 360
gagaatgaaa tgtatgtgct cttagcaaaa acatgtatgt gcatttcaat cccacgtact 420
tataaagaag gttggtgaat ttcaagct atttttggaa tatttttaga atattttaag 480
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<210> 107
<211> 402
<212> DNA
<213> Homo sapiens
<400> 107

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gggtttgcat ttctaaaatg gtgactttta ttctgcaaga gttcttagta acttcttgag 180
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tggcaggtag acacactgcc ctattttatt ttgagtctaa gttaaatgtt ttctgaaaag 300
agatacatgc actgaactct ttccactgcg aatcaagatg tggtaatata aaaggatcaa 360
gacaaatgag atctaatact actgtcagtt ttaatgtcca ct 402

<210> 108
<211> 504
<212> DNA
<213> Homo sapiens
<400> 108

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tttagccaag tatttgatgg agctgactct catcgactat gatatggtgc attatcatcc 120
ttctaaggta gcagcagctg ctctctgctt gtctcagaag gttctaggac aaggaaaatg 180
gaacttaaag cagcagtatt acacaggata cacagagaat gaagtattgg aagtcatgca 240
gcacatggcc aagaatgtgg tgaaagtaaa tgaaaactta actaaattca tcgccatcaa 300
gaataagtat gcaagcagca aactcctgaa gatcagcatg atccctcagc tgaactcaaa 360
agccgtcaaa gaccttgctt cccactgat aggaagggtc taggctgccg tgggccctgg 420
ggatgtgtgc ttcatgtgc ctttttctt attggttag aactcttagt ttgtacata 480
gtcctctggt ctatctcatg aaac 504

<210> 109
<211> 512
<212> DNA
<213> Homo sapiens
<400> 109

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cccctcctgc cagggtggcg attccgtcc acagtctcgg acggatctgc tcagaaagga 120

agaggcaggc gccaggggga acccccttcg tgtttgtga cctcccttt taggtgaagc 180
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tctttcaacc cctcgctctg gttctcaggc cagcatttc caggcgggtt tgtttgcat 360
ttcttgagc ctctccgagc agcaaccaga cgggagatt ttatttaag ctgtcatgc 420
tgggactgac agcctgcagg gtttccttgg gcgcggcccc aaaattgcct tcaaaacaaa 480
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<210> 110

<211> 212

<212> DNA

<213> Homo sapiens

<400> 110

ccgaacgtgg gcgccaatgg cgagatctgc gtcaacgtgc tcaagaggga ctggacggct 60
gagctgggca tccgacacgt actgctgacc atcaagtgc tgctgatcca ccctaacc 120
gagctgcac tcaacgagga ggccggccgc ctgctcttgg agaactacga ggagtatgcg 180
gctcgggccc gtctgctcac agagatccac gg 212

<210> 111

<211> 337

<212> DNA

<213> Homo sapiens

<400> 111

cggacggaag atggcgctcg ccaccgtct catccagcgg ctgcggaact gggcgctcgg 60
gcatgacctg cagggaagc tgcagctacg ctaccaggag atctcaagc gaactcagcc 120
tctccaag ctccctgtgg gtctagcca caagctctcc aacaattact attgactcg 180
cgatggccgc cgggaatctg tgcccccttc catcatcatg tcgtcgcaga aggcgctgg 240
gtcaggcaag ccagcagaga gctctgctgt agctgccact gagaagaagg cggtgactcc 300
agtcctccc ataaagaggt gggagctgtc ctggac 337

<210> 112

<211> 330

<212> DNA

<213> Homo sapiens

<400> 112

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ctcaccactc tgtcaacggc tgcaacctgc ggccggggga ctcctggct tctgggacca 180
tcagcgggcc ggagccagaa aactcggct ccatgttga actgtcgtgg aagggaacga 240
agcccataga cctggggaat ggtcagacca ggaagttct gctggacggg gatgaagtca 300
tcataacagg gtactgccag ggggatggt 330

<210> 113

<211> 454

<212> DNA

<213> Homo sapiens

<400> 113

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gcaccacagt gaccctggcc tcagcgtggc aatgcatgt aatatctt cgtaggcagc 180

gtggctccag agagccccct gaagacagtg tccctccctc ctgtgagtc tttctctgt 240
acagaacctg cctgggggtg gtgggggtct gccattccct ccccaggcc ttcctgccc 300
cttctctccc ctgaacctg ttattaacc atacctgtcc tgagttcatg gccaaaacct 360
taaataagaa aaacaaaaga aaaagacagt ggaaaaaaga gaccaaggcg cctgcccac 420
tgcgggtact ctctgttcc agccttgtga agga 454

<210> 114

<211> 459

<212> DNA

<213> Homo sapiens

<400> 114

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acagtatatg aagacctgag gtataagctc tcgctagagt tcccagtggt ctacccttac 120
aatgcgcccc cagtgaagtt cctcacgccc tgctatcacc ccaacgtgga caccagggt 180
aacatatgcc tggacatcct gaaggaaaag tggctgccc tgtatgatgt caggaccatt 240
ctgctctcca tccagagcct tctaggagaa cccaacattg atagtccctt gaacacacat 300
gctgccgagc tctggaaaaa ccccacagct tttaagaagt acctgcaaga aacctactca 360
aagcaggta ccagccagga gccctgaccc aggctgcccc gcctgtcctt gtgtcgtctt 420
tttaattttt ccttagatgg tctgtccttt ttgtgattt 459

<210> 115

<211> 371

<212> DNA

<213> Homo sapiens

<400> 115

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tcctttatgc agcttggccc tgtctaccga gatgcccac tcttctgccc tgctagcctg 120
ctagaccctc aaactgggtg ggttctgtgt caataaaaag cttaccccc tggctgagtg 180
agggtgtccc ctgcaatcac tgtttgtccc ctaccacccc aacctgtccc tgcctgtccc 240
cagcccactc atccttatgt gctagggata aatcaagagt cctcagcact ccacattccc 300
aaaaaatccc aggaactcct aaaccttccc ctgtgacaga agatgaggtt ggcagctgat 360
cagacctcaa t 371

<210> 116

<211> 319

<212> DNA

<213> Homo sapiens

<400> 116

tggagggtcaa actgggggag ctgccaagct ggatcttgat gcgggacttc agtcctagt 60
gcattttcgg agcgtttcaa agaggttact accggtacta caacaagtac atcaatgtga 120
agaaggggag catctcgggg attaccatgg tgctggcatg ctacgtgctc ttagctact 180
ccttttcta caagcatctc aagcacgagc ggctccgcaa ataccactga agaggacaca 240
ctctgacccc cccacccca cgaccttggc ccgagcccct cctgaggaa cacaatctca 300
atcgttgctg aatcctttc 319

<210> 117

<211> 352

<212> DNA

<213> Homo sapiens

<400> 117

gaagtgtcct ttatattacc agaaaatatg ggcttggcct aagtcgtgt ctctaacct 60
 gccgggggtca ttccccacca aacaccccat actaaggagc catgagccac ctggacattc 120
 accttttctt tgaccatctg gagtctgggg caacttaagg aggcaccaca cagtgggtgca 180
 ggcacatttc caagcgtagg tgtccctggc tttgtggcc aaagctagt ttatgggtcaa 240
 caacaggcca ggggtctgtg ggcactgacc ttgaaagtgg caaaatggag gttcacagg 300
 ctgtgcggga gcaggacggc ttgcttcac taacaatctc agtttcctt aa 352

<210> 118

<211> 487

<212> DNA

<213> Homo sapiens

<400> 118

aaaagcactc tcacagata tctgacataa ttagatacaa tataacattt tactaagttc 60
 agtattcatg ttttaaaggt gtttatactg atttgattgt gctggcaa atactgtatt 120
 gttaatattg aactgtttat ttttcttta gtcttctt ttaattaact tcattgccgc 180
 tggattctgt tcagccttta aaaatatttc ttagtgggtca ttgctctgca gaactcaaaa 240
 agaaaattgt actgttcat agacattttt aaagggttaa tttattgttc agccttatcc 300
 ctggcacgt aaacagacta ctagacttat ttaggttcg ttgagcttt gtgtgtataa 360
 attaaaaatg ctctataaaa gtttcaagg tagggagtga tttattatt gtgtatatct 420
 aatatattaa gtatgtgtga tactaagggt tgaactgctat aattatttgt actgttgatc 480
 acatgta 487

<210> 119

<211> 476

<212> DNA

<213> Homo sapiens

<400> 119

cgtgaacgtc acccaggtat tcgtggacac cgtagggatg ccagagacat accaggcgca 60
 gctgcagcaa agttttccc ggattgaggt gacgggtcaag gccaaagcag atgccctcta 120
 cccgggtggt agtgctgcc gcatctgtgc caaggtggcc cgggaccagg ccgtgaagaa 180
 atggcagttc gtggagaaac tgcaggactt ggatactgat tatggctcag gctaccccaa 240
 tgatcccaag acaaaagcgt ggttgaagga gcacgtggag cctgtgttcg gcttcccca 300
 gtttgcggg ttacgtggc gcacggcca gaccatcctg gagaaagagg cggaagatgt 360
 tatatgggag gactcagcat ccgagaatca ggagggactc aggaagatca catcctact 420
 cctcaatgaa ggggcccaag cccgtcccgc ttctccac cgatattcc tggaac 476

<210> 120

<211> 419

<212> DNA

<213> Homo sapiens

<400> 120

ctggcagctc ctctgagtgg ggagaggttg ggcagtgagt gagggacccc taatgcaggg 60
 actagaagcc tcagtttccc cattttacc ttccacaaa tagcctctgt aggttaggct 120
 gccccatccc accctactct gtgtggctgc tttcttgggt gccctcccct caccctactg 180
 tagctgtgac gtgtgtagt ttttagatgt ttgtaaaatg tttaaaaaaa tgttaaaagg 240
 aaaaaagtga aaataacaaa aaagaaaatc aaattcacc ttcgtcatgc tgcgtccagt 300
 gccccaaccc tgtggctact ctccccattt tgtaacactg taccaggtgg tgactgttta 360
 actcttgggt gtctgtgctc aaaagactgc ctctccagt gccagtgtga tgagtgtgt 419

<210> 121

<211> 438

<212> DNA

<213> Homo sapiens

<400> 121

```
gccccctggag tcgcggagaa agggccgtaa ccggaggacc cacgcccctg agcctcgcgc   60
tgagcggggg ccgcgcagcg caacgcactg gtgaccagac tgtcccacg ccgggaacca   120
agcaggagac gacaggcgag agaggagcca gacagaccct gaaaagaagg acgggttggg   180
gccgggcaca ttgggggtca ccggccgatg gagacaccaa ccgacaggcc ctggctgagg   240
gcagctgcgc gggcttattt attaacagga taacccttga atgtagcagc cccgggaggg   300
cggcacaggt cgggcgcagg attcagccgg aggggaaggga cggggaagcc gagctccaga   360
gcaacgacca gggccgagga ggtgccttga gtgccaccc tgggagacag accccacctc   420
cttgggtagt gacgagtg                               438
```

<210> 122

<211> 471

<212> DNA

<213> Homo sapiens

<400> 122

```
gattggttc gacccaagct caactatcga gtgccagcc ggggccataa actgactgtg   60
accctgtcat gtggcagacc ttccatccga accacggctt gggaagacta catttggttc   120
caggcaccag tgacatttaa aggttccgc gagtgaatga gtgcttcta atcctaaaaa   180
cacaatggct gaattatctt tctccatgtg gcgctgaatc acccatctgg ttggagcta   240
gagtgcttc ctggtgagag aggaagcaac tctcctctg gttgtctgcc tcccctcaga   300
tttctgata ggctgatggc atgtggctgt gactgtgact gtaatcattg ctgaacaaca   360
tctcttgaa tcaaggttg atttcccag aggggtgctgg gtcaggcatt tctattagga   420
gttggaagc aaaaatgggt ccatagacac tctatggagg tgtcccttc t                               471
```

<210> 123

<211> 475

<212> DNA

<213> Homo sapiens

<400> 123

```
gagtggcgag ctcataagcc ttagagagga ggtgaccac cttaccgct cacttcggcg   60
tgcggagaca gagacaaag tgctccagga ggcctggcag gccagctgga ctccaactgc   120
cagcctatgg ccaccaattg gatccaggag aaagtgtggc tctctcagga ggtggacaaa   180
ctgagagtga tttctctgga gatgaaaaat gagaaggaaa actcctgac aagttccaga   240
gccccatgaa atatcctaga ggagaacctt cggcgctctg acaaggagt agaaaaacta   300
gatgacattg ttcagcatat ttataagacc ctgctctcta ttccagagg ggtgagggga   360
tgcaagaac tacagggatt gctggaattt ctgagctaag aaactgaaag ccagaatttg   420
ttcacctct tttacctgc aataccccct tacccaata ccaagaccaa ctggc                               475
```

<210> 124

<211> 482

<212> DNA

<213> Homo sapiens

<400> 124

```
tatagagttt atctacacgg cccctcctc ggcagtgtgt ggggtctgc tggacgttgg   60
aggaaagaag gaatatctca ttgcaggaaa ggccgagggg gacggcaaga tgcacatcac   120
cctctgtgac ttatcgtgc cctgggacac cctgagcacc acccagaaga agagcctgaa   180
ccacaggtac cagatgggct gcgagtgcaa gatcacgcgc tgcccatga tcccgtgcta   240
```

catctcctcc ccggacgagt gcctctggat ggactgggtc acagagaaga acatcaacgg 300
gcaccaggcc aagttcttcg cctgcatcaa gagaagtgc ggctcctgtg cgtgtaccg 360
cggcgcgggcg cccccaagc aggagttct cgacatcgag gaccataag caggcctcca 420
acgcccctgt ggccaactgc aaaaaagcc tccaagggtt tcgactgggtc cagctctgac 480
at 482

<210> 125

<21 1> 530

<212> DNA

<213> Homo sapiens

<400> 125

tgcttggtgt gaccacgga ggatccactc ccaggatgac gtgctccgta gctctgctgc 60
tgatactggg tctgcgatgc agcggcgtga ggcctgggct ggttgagaa ggtcacaacc 120
cttctctgtt ggtctgcctt ctgctgaaag actcgagaac caaccaggga agctgtcctg 180
gaggtccctg gtcggagagg gacatagaat ctgtgacctc tgacaactgt gaagccaccc 240
tgggctacag aaaccacagt ctcccagca attattacaa ttctgaatt ccttggggat 300
ttttactgc cctttcaaag cacttaagt ttatgactaa cgtgttcag tgtctgtctg 360
aggtgactta aaaaatcaga acaaaacttc tattatccag agtcatggga gactacacc 420
ttccaggaa taatgtttg ggaacactg aaatgaaac ttccagtat tataaattgt 480
gtatttaaaa aaagaaaact ttctgaatg cctacctggc ggtgtatacc 530

<210> 126

<21 1> 504

<212> DNA

<213> Homo sapiens

<400> 126

tccgcattgg cacttctggt gggataggct tggagcccg cactgtgggtc ataacagagc 60
aggcagtgga tacctgcttc aaggcagagt ttgagcagat tgcctgggg aagcgggtca 120
tccggaaaac ggaccttaac aagaagctgg tgcaggagct gttgctgtgt tctgcagagc 180
tgagcgaggt caccacagtg gtggggaaca ccatgtgcac cttggacttc tatgaagggc 240
aaggccgtct ggatggggct ctctgctcct acacggagaa ggacaagcag gcgtatctgg 300
aggcagccta tgcagccggc gtccgcaata tcgagatgga gtcctcgggtg ttgcccga 360
tgtgcagcgc ctgcggcctc caagcggccg tgggtgtgtt caccctcctg aaccgcctgg 420
aaggggacca gatcagcagc cctcgcaatg tgctcagcga gtaccagcag aggccgcagc 480
ggctggtgag ctactcatc aaga 504

<210> 127

<21 1> 477

<212> DNA

<213> Homo sapiens

<400> 127

gtggccgtag caacttggcg gagacaggct atgagtctga cgtagagtg gttgcttct 60
tagccttca ggatggagga atgtgggcag ttgacttca gactgaaaa cctctccacc 120
tgggccaggg ttgcctcaga ggccaagttt ccagaagcct ctacctgcc gtaaaatgct 180
caaccctgtg tcttgggctt gggcctgctg tgactgacct acagtggact ttctctctgg 240
aatggaacct tcttaggcct cctggtgcaa cttattttt tttttaatg ctatcttcaa 300
aacgttagag aaagtcttc aaaagtgcag ccagagctg ctgggccac tggccgtcct 360
gcatttctgg ttccagacc ccaatgcctc ccattcggat ggatctctgc gttttatac 420
tgagtgtgcc taggttgccc ctatttttt atttccctg ttgcgttgct atagatg 477

<210> 128

<211> 460

<212> DNA

<213> Homo sapiens

<400> 128

```
gttcctgcag aaggcgctcg agatccttcg gaaagacttc agtgagctga ggtccgcagg   60
ggtggagcag ctcatgtaca tcaaggagga ctgatcatc cctcaccatc acagcttcta   120
cgacttcac gtcaccaagg cacgggggaa gagtggacca ctctcaact ttgatgttca   180
tgacgatgtg cggttgctca gtgacgccac tgtggagaag gatgagtcct atgcaggcaa   240
ggtggtgctg aggagctggt acgagaagaa caagcacatc ttcccgcga gccgctggga   300
accctacgac cctgaaaaga agtgggacaa gtacacgac cgctgagcat ccaggaggct   360
gcgcggcccc ggctcctcag ctccctcagt gtccccctg gtgtaccgg gactccaggc   420
acccgtctcc ctgcgacct gccaggcacg ctgggaggag                               460
```

<210> 129

<211> 526

<212> DNA

<213> Homo sapiens

<400> 129

```
gaactgttc agaccgttt agcacggaaa cctaaaatgt gcagcttct tgagtggcga   60
gatctgaaga ttgtttacaa aagatatgct agtctgtatt ttgctgtgc tattgaggat   120
caggacaatg aactaattac cctggaaata attcatcgtt atgtggaatt acttgacaag   180
tatttcggca gtgtctgtga actagatc atctttaatt ttgagaaggc ttattttatt   240
ttggatgagt ttcttttggg aggggaagt caggaaacat ccaagaaaaa tgccttaaa   300
gcaattgagc aggtctgact actgcaggag gaagctgaaa cccacgtag tgttcttgaa   360
gaaattggac tgacataact ctctccctt gttgatgact tcttgaggca ttacacacac   420
tgtagatggt cactcccttc atgtccatgt tagctcatgg tgtaagatga tgtctgtca   480
gtattactgt ttgctaagc cgcttcattc atgcctacac aatttt                               526
```

<210> 130

<211> 463

<212> DNA

<213> Homo sapiens

<400> 130

```
gggaaccggt gactcagaaa gacagatgtt ttgtaattt accccaaatg tgccatccac   60
atagtgttt ttctcttgc ccttcggctt gttgaatct cacaattatg tatttaattc   120
tcaaagaaat atgtatctgt agccgtttgt tgacactaat acagatgatt aaggaaaaca   180
gctgatcttt ggggaaggga gctaccaaca cttatacac acacacacgt gcacacacac   240
acacacacta tatatatata ttattacag ggaaatttt cagggtttac aaaagagtat   300
gtgattggtg gtaagagaca cacagaatgt ttatgaagaa attgcatttt cttttcctt   360
tacatttgaa ctctttata gtttaatat aacgtcttga gatggcacat tctacgatt   420
gaagaagggg tcttgatgc ccctaaactt gcataccag ttt                               463
```

<210> 131

<211> 255

<212> DNA

<213> Homo sapiens

<400> 131

```
ccgtggagct tcatcggggt ggtgcaggct cccaaactca ggcttcagc tgtgctttt   60
gcaaaagggc ttgcctaagg ccagccattt ttcagtagca ggacctgcca agaagattcc   120
```

ttctaactga aggtgcagtt gaattcagtg gggtcagaac caagatgccac acatcggtgt 180
ggactacagg acaaggggca ttgttgcttg ttgggtaaaa atgaagcaga agccccaag 240
ttcacattaa ctcag 255

<210> 132

<211> 560

<212> DNA

<213> Homo sapiens

<400> 132

ggctttcagc tctatcagag tgaccctagt ggaaattacg ggggatggaa ggccacatgc 60
attggaaata atagcgctgc agctgtgtca atgttgaaac aagactataa agaaggagaa 120
atgaccttga agtcagcact tgcttagct atcaaagtac taaataagac catggatgtt 180
agtaaactct ctgctgaaaa agtggaaatt gcaacactaa caagagagaa tggaaagaca 240
gtaatcagag ttctcaaaca aaaagaagtg gagcagttga tcaaaaaaca tgaggaagaa 300
gaagccaaag ctgagcgtga gaagaaagaa aaagaacaga aagaaaagga taaatagaat 360
cagagatttt attactcatt tggggcacca ttccagtgtg aaagcagtc tactcttcca 420
cactaggaag gctttacttt ttttaactgg tgcagtggga aaataggaca ttacatactg 480
aattgggtcc ttgtcatttc tgtccaattg aatactttat tgtaacgatg atggttacc 540
ttcatggacg tcttaattct 560

<210> 133

<211> 470

<212> DNA

<213> Homo sapiens

<400> 133

ttctgagcca ccttgtggat cccaaggacc tggagccacg ggctgccaac tgcactcggg 60
tactgtgtg gcatactcg acagagaagc ccaagatgaa gcaggaggag cagctgcagc 120
ggcagggccg ggggtcagac ccagcaattg aggtgtgatg gcggcccccac cccaactacc 180
acctctttc aggcacagac ctgtgggac tgggccccag gcctgccag gatgtggtt 240
tccaagtct gaccttggga gccagaagtg gcccctctgc ccctccaggc ccaggggcatg 300
gtctgtctgc ttcacccctc ccctagcctg ccgtgtggca ctgcccacag gctggggaca 360
agcagccctt gtgttgatg aggttggccc tgtctagggt ggaacagaag gacagatgga 420
cccaggaggg agggcagctg agtaactggg taactattg gggctgggca 470

<210> 134

<211> 541

<212> DNA

<213> Homo sapiens

<400> 134

aaaacaggac atctgtgacc gcctacccc cagccagcc ccaaactaag ataccctca 60
caccagccc ccattaccta gggacaagag tcttcccag ccttgaacct aggaccaaga 120
gccacctaca tccagcccca aaactggggc ttcaggccag agcatccatg gccatttca 180
aatttgaac ccagagacac tccatccac cttctccat gtcacccc aaactggggc 240
ctggagcaag gcactctcaa atcttgaacc ctggaccaa gctttccag accccacct 300
acctccaac ccaggtaag acattgcaa atcttgaact cagaaccaa gtgttccatg 360
cccctgtgtg gatggagtcg ggtatcctga ctgttgacc cctgtccag gtgatccga 420
ccctaccag tccatttgc cctctccag ctctgcttag gcatttggc cctcaccaca 480
atgttcaca ccacgacaa ccaaggggtg aggtggggac aggcctcagc agggaatggg 540

R

541

<210> 135

<211> 501

<212> DNA

<213> Homo sapiens

<400> 135

```
tatgagttag cttcttgc agccccctag tcggtcacca aactagtaac tagtggggct   60
taatgaaggt cataagttc tgagatggga gagcaacaag tagagatgaa gttaaaggta  120
ttatcattc aagaaatcat tattgagtca ccaattgaca ggcactattc taatcagtag  180
ttcactttaa tatttaataa gatttctgg gataacagta agggatatta gataatatac  240
cgtatgtatt tattactagt ctttctct aggaaaaggg atactttgat aattaaggcc  300
agaggcccat tagttgagaa agtcacagat atatttctcc aagaaagcca acaaccacca  360
ccacaatgac agaaatgaca acaaggccct ttaactgtc ttctagttta gagacatcct  420
tcatttgaca tttagtagaa ttctcttg gccacaagaa taagcagcaa ataaacaact  480
atggctgttg aggttctcat t                                     501
```

<210> 136

<211> 533

<212> DNA

<213> Homo sapiens

<400> 136

```
ttccaaagtc tctgctgtca agatagattc gagagaaagc acgtggccat gtatgcttta   60
accttaaact gcataacat gtagtgatac ctaggtgca tttagatcac cgtgtgctca  120
ggccaggtgt gaatcctgag gtccatggag gtgcagagat gagattactc ctattcacgt  180
tgaagtgatt tgccttgta aaaaaaatt gcagctattg tctagcttcc attttttac  240
tgagaacttt aaattagtcc cctattagaa taggggtgct actcatcttt ttttaaaac  300
cgaatttcat catttatcta aagagaaaat atgcagaata actggtcttg ttaagagtgc  360
aatattatat ttttatgtaa aaataaaaat taattggggg ggattattha ttcagcatga  420
aacctaatat gtatatgttt gaaatacttc ataattgtca tgtttagca aacatttctg  480
taaattatca caagctctgt tacctttata tacgtgcct ctccaattg gaa       533
```

<210> 137

<211> 351

<212> DNA

<213> Homo sapiens

<400> 137

```
aaaacagcca agcttttctg caaaaaagat gactgagaag actgttaaag caaaaagctc   60
tgttctgcc tcagatgatg cctatccaga aatagaaaaa ttcttccct tcaatcctct  120
agactttgag agtttgacc tgcctgaaga gcaccagatt ggcacacctc ccttgagtgg  180
agtgcctctc atgatcctg acgaggagag agagcttgaa aagctgttcc agctgggccc  240
cccttcacct gtgaagatgc cctctccacc atgggaatcc aatctgttgc agtctccttc  300
aagcattctg tcgacctggg atgttgaatt gccacctgtt tgctgtgaca t       351
```

<210> 138

<211> 542

<212> DNA

<213> Homo sapiens

<400> 138

```
ggcaaagcac acaggctgag cgctgaggag agggaccagc tgctgcaaaa cctgagggct   60
gtggggtgga atgagctgga aggccgtgat gccatcttca agcagtttca ttcaaagac  120
ttcaacaggg cctttgggtt catgacaaga gtggccctgc aggtgagaa actggaccac  180
```

catcctgaat ggtttaacgt gtacaacaag gtccacatca cgctgagcac ccatgagtgt 240
gccggccttt cagaacggga cataaacctg gccagcttca tcgaacaagt agcagtgtcc 300
atgacataga cctgcccctt cctctttgaa ttctccggg ggaaggggtg actgaactgg 360
gagtccaggg agggagctga ggagccctta cctcccacc actcccctcc caagaccag 420
ccgccgccgt tgagggtga gtccttctg tgggatgtgc cagtgtcccc accaacacca 480
ggaatttaga cctttccct gcaccactct ctcatcctg ggggtctgt tacactaatt 540
tg 542

<210> 139

<211> 549

<212> DNA

<213> Homo sapiens

<400> 139

ctggaggaca gcacctgtga ctctggcaac ctcaagcgt atgcatgcac ctctcatacc 60
cagggcctga gccaggtg ctatgacacc tacaatgccg acatcgactg ccagtggatc 120
gacataaccg acgtgcagcc tgggaactac atcctcaagg tgcacgtgaa cccaaagtat 180
attgttttgg agtctgacti caccaacaac gtggtgagat gcaacattca ctacacaggt 240
cgctacgttt ctgcaacaaa ctgcaaaatt gtccaatGct gatctccggg agggacagat 300
ggccaatctc tccccctcca aagcaggccc tctccccgg gcagcctccc gccgaggggc 360
ccagccccca accacagggc agggaggggc atccctccct gccggcctca gggagcgaac 420
gtggatgaaa accacagggg tccggatgc cagaccccat ttatacttc acttttctct 480
acagtgtgt tttgtgttg ttggtttta tttttatc ttggccata ccacagagct 540
agattgccc 549

<210> 140

<211> 558

<212> DNA

<213> Homo sapiens

<400> 140

acctcccgtg agaaagctgg tccacgaca agagtggca gcagaagatg agcaggtgtt 60
cctaataag caacagtcac tccttgcaa gcaaccagcc actccacga gagcttctga 120
atctctgca agaggacct ctggctctcc aaggaccag ggtcggggag ggccagccag 180
tgtgcctagc tctccccag gcacgtcagt aaaaaagccg gacccaaaca taaaaataa 240
tgcagcaagt gaaggggtgt tggccagctt ctcaacagt ctgttgagta aaaagacagg 300
ctctctgga agtcttgtg ctggtgggt gcagagcaca gccaagaagt caggacaaaa 360
gactgtgttg tcaaatgtc aggaagaact ggatagaatg actcgaaagc cagactctat 420
ggtaacaaac tctcaacag aaaatgaagc ctgaacctcc ttaaaaagt catatgtcga 480
atgaccaa atactatgtat attgatctgc taagaccagg attttctga tatggcacat 540
gctatcagtt tttgggg 558

<210> 141

<211> 518

<212> DNA

<213> Homo sapiens

<400> 141

tgaggctttg gccttaacac ccaggaactt ttctattaca atcgcttagg aagtaaagcc 60
ttgtctccct cctgttctc tgctcttgt accctctga cccaccgct ctgccccact 120
cccagccctc ctacgcccc gccctgcctg cctgcccc caggggggcc atgagtgcct 180
aggtttctca taccacaaa ggtcacagca ggggaggag ggacaattt ataataaacc 240
aaaaattcca tgtttgggg ggtggggggc ggaggagggt gaggggtgcc gcccatgggc 300

cacaaatctc tacaagtgcc tgctatccct ctcccactcc ccaccccagc accggtccaa 360
ccccctcacc cccagctgct cctaggactg gcccatgggc aggcgggtgg ggggatggga 420
aggggggtgcc ctgaaaccaa actggaagcc ccctctgcct ccagctggg gcctctgggg 480
tgggggtgggg ggctgtgggc aagccttatt ctgtattg 518

<210> 142

<211> 433

<212> DNA

<213> Homo sapiens

<400> 142

gtttgatgct cgctgggtaa catacttcaa caagccagat atagatgcct gggaattgcg 60
taaagggata aacacacttg ttacctatga tatggttcca gagcccaaaa tcattgatgc 120
tgctttgcgg gcatgcagac ggtaaatga ttttgctagt ctagtgcga tcttagaggt 180
tgtaaggac aaagcaggac ctcataagga aatctacccc tatgtcatcc aggaacttag 240
accaacttta aatgaactgg gaatctccac tccggaggaa ctgggccttg acaaagtgtg 300
aaccgcatgg atgggcttcc ccaaggattt attgacattg ctacttgagt gtgaacagtt 360
acctggaaat actgatgata acatattacc ttatttgaa caagtttccc ttattgagt 420
accaagccat gta 433

<210> 143

<211> 512

<212> DNA

<213> Homo sapiens

<400> 143

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ccaagctgcc tacagcctaa acttccccct gttggctctg ccagccccc gccagcgcc 120
cgccacctcc tggagtgcgt ttccgtgctc ttacccgcg gtcgtattgg agaccgtcaa 180
gcaggcggag agcagcccc agcgccgctc gctggtcctg aggtgtatg aggccacgg 240
cagccacgtg gactgctggc tgcacttgc gctgccggtt caggaggcca tctctgcga 300
tctctggag cgaccagacc ctgctggcca ctgacttcg ggacaaccgc ctgaagctca 360
cctttctcc ctccaagtg ctgtccctgt tgctcgtgct tcagcctccg ccacactgag 420
tccttggggc tggggtttt ttgtagaag gctctgggga ctctaattt ctgcttccc 480
agcctaaagc agggatcagt ctttcttgt gg 512

<210> 144

<211> 500

<212> DNA

<213> Homo sapiens

<400> 144

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ataaaattgc agtatttaaa gcttaagctt tcaggaaaaa gaaaataaga attcagtgtg 180
tgcattgaca ctcgtgtgta tgagaaggag ggatatgaag gaagatggct tgcagagtaa 240
gtcgggtggc aattgtcagg gtgtgggaat ttcttttct acgggggtacg tgattttgta 300
aaaagggaagt atttctcca aaattgggag taggcaaact actaatcagt ttagctttgt 360
gttgatgct agtttaaaaa agaaaatatg taatataatg taataaaaaa caaaaaaag 420
cttttatgat ggattttgta aatagatttg ttacagggtg acctgttctc tagctgtgat 480
cttaccactt caaatgggtg 500

<210> 145

<21 I> 512

<212> DNA

<213> Homo sapiens

<400> 145

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tgaatgacct gacttttagc caccaggtac tctttaaaca gtttcctta tcagaggccc   60
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gagaattctt agcatattt cagacgtttt ttctgcacaa taataagtc atctgtcact   180
tgcattccac ttttgttac atagaaagag tctgaccctt taatccaaaa ggtcttttta   240
cattgtgaat gctgtgggaa ggcaatttct ctgcacacaa gaggctacgt ttggaagtg   300
atgtatgtta ttgatgact gaaaatgaac tgtaaagct cctagagtat attcctctgc   360
tgaacaaat taaacttcaa aaaaatctaa cagtaacaca cccctgcttg ggaccctagc   420
tatatgcatt ttatgtgacc ttgcatgct tcagtgaaca tactaattct atgtctagca   480
catgttgatt tcctatgtat tctgggtatt ct                               512
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<210> 146

<21 I> 562

<212> DNA

<213> Homo sapiens

<400> 146

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aggacaaact ctgtgtacct gtgcccagggt gaatgggcgc agggctctct tgcctgtcc   60
tgcggggggc cccacgagtt cctggcattc agcactgctt agcattctcg gaaggtttct   120
tcaactgctt gcttttccca ggcttgctt tagtgtcatg taagacattt ttaagtata   180
tttattttgt tgggttttaa aattgcacag aacactaaga ccgaaaggct ggactcttgt   240
ttctccttga aagctttgcc ttgttttga acttctttc ccacttggtg gaaagagccc   300
agaagcagcc ctggccctgt aagatggact ctttcatctt tcagttgtat ttagcttga   360
gtttctctgc atctgtccac cccatgtgta tataaccag cccctggctc tgggggtggtc   420
acctgctcag tgccttttgt tctggaggag aggaccccc cgctgccga gaggctctct   480
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tgcacagtc ctgtcaaca ga                               562
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<210> 147

<21 I> 465

<212> DNA

<213> Homo sapiens

<400> 147

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atctcattc ttactgtct ttctgtggcc actttggaca agtcctggtg gactctccct   60
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gcctgcagta atgtcagcga gaatggctgg ctgaaggcgg tgcaggtcct catggtgctc   180
tccctcattc tctgtgtct ctccttcac ctgttcatgt tccagctcta caccatgcga   240
cgaggaggtc tcttctatgc caccggcctc tgccagctt gcaccagcgt ggcggtgtt   300
actggcgctt tgatctatgc cattcacgcc gaggagatcc tggagaagca cccgcgaggg   360
ggcagcttcg gatactgctt cgccctggcc tgggtggcct tcccctcgc cctggtcagc   420
ggcatcatct acatccacct acggaagcgg gagtgagcgc cccgc                               465
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<210> 148

<21 I> 493

<212> DNA

<213> Homo sapiens

<400> 148

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ggagttgtag cctctttaa cacctgagaa gccatgagag gacagatccc ataaatacct   60
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taagttaga ggggtctctg tttagaata gctcttaatt tttagaaaac ctctctggag 120
ggaaaccata ctctataat gagcaaagta acaacttcaa gcattttcc agcgttacca 180
tcaaactcac aaataggttg aaatccttta gtataactc agcctttagg aacaccggag 240
aaccacaat aatagaaatc tttctgtgt cccattgag aaatgcttta gtagcatct 300
tcatgcttgg aaatctagac aagaagagaa tccatggatg gacatggtcg aggaattcgg 360
aaagcctgca gttgacattc agtcttact tgaaactcaa aactgacact aggaacagct 420
tcatgagttc agtagaagta agctttatt gtagcttctg cctgtttga cggcgtatct 480
attcagggaa gcg 493

<210> 149

<211> 480

<212> DNA

<213> Homo sapiens

<400> 149

caggcaggag gtctgttag cctgccttc caggaaggtt ggggtgggag tttgagtgg 60
gaaagaggat gacatgtgtg agagagtct gagcctgtt gctagggaga gtgagtgagt 120
gtcttgggc actgtcagg cggttctgc tgactgcct ggcttacaat aaatgccaa 180
taaattttg ttgaccatat gtgtgtaca ctgtgtgcc ctgtccagtc cctctacca 240
agctgagacc cccatccca gctgcttga gttgggctg caagtgtca cagctctgt 300
tctccagaaa ctggagaatt gccctcagga gatgagagcc atctcacctc acccaggagt 360
cactctct ctacaccca acacctggt catttgatta aagcggagaa aactccaggg 420
tgctatgact gctctggcac ccttgatca ggccaagcta gacttttct gaccctcat 480

<210> 150

<211> 483

<212> DNA

<213> Homo sapiens

<400> 150

attcagcctg gcttcaaatt gtaagcatgc acaaattctg tctctggatt atattatgaa 60
gcttttatgt gaaacatgt tctttgtaat gaaaaccaca ttggagatgt tttagaatca 120
tattgttact ggtaccaaga ctactagga aatgccttg tactttaggg aagtacttt 180
ggcattttac tgtacagaca gaaaaaactg agatgtagcc cctctcctgg aagtgcta 240
ttgaaaaac tgctcatatg atgtacatgt actgattact gcctatttta ataaacactc 300
ttgaaaaatg catgttgccc tgtgtctgcc tgcctattc tctcatctc cccatcattg 360
gtaccacatt gcttttaaaa tccactttat ctgaataat gtaagacaaa tatgttctga 420
cataagtatt taattcatgt tgccttgc attggtcaga ggcgcatgaa ttttgaagg 480
tgg 483

<210> 151

<211> 145

<212> DNA

<213> Homo sapiens

<400> 151

ttctgaaca tgagtttgcg acgggaccag tgtgtcttga tgatgagaat gagtttctc 60
ctataatctt gtgccgtgga aatcagaagg gcaaaacgaa gcagtcatga tgagaagcac 120
acctcagaaa tcaggacatc cccc 145

<210> 152

<211> 539

<212> DNA

<213> Homo sapiens

<400> 152

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tgccagcgac tgtctcagac tgggcaggga ggctttggca tgacttaaga ggaagggcag   60
tcttgggacc cgctatgcag gtcctggcaa acctggctgc cctgtctcat ccctgtccct   120
cagggtagca ccatggcagg actgggggaa ctggagtgc ctgtctgtat ccctgttgtg   180
agggtccttc caggggctgg cactgaagca aggggtgctgg ggcccatgg ccttcagccc   240
tggctgagca actgggctgt agggcagggc cacttcctga ggtcaggtct tggtaggtgc   300
ctgcatctgt ctgccttctg gctgacaatc ctggaaatct gttctccaga atccaggcca   360
aaaagttcac agtcaaatgg ggagggttat tctcatgca ggagaccca ggccctggag   420
gctgcaacat acctcaatcc tgtcccaggc cggatcctcc tgaagccctt ttcgcagcac   480
tgctatcctc caagccatt gtaaatgtgt gtacagtgtg tataaacctt cttcttct   539
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<210> 153

<21 I> 390

<212> DNA

<213> Homo sapiens

<400> 153

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gaaggtgtgg ttttcattc tcagtcacca acagatgaat aattatgctt aataataaag   60
tatttattaa gactttctc agagtatgaa agtacaaaa gtctagttag agtgattta   120
gaatatattt atgttgatgt caaacagctg agcacctag catgcagatg tcaaggcagt   180
taggaagtaa atggtgtctt gtagatatgt gcaaggtagc atgatgagca acttgagttt   240
gttgccactg agaagcaggc gggttgggtg ggaggaggaa gaaagggaag aattaggttt   300
gaattgcttt ttaaaaaaaa aagaaaagaa aaagacagca tctcactatg ttgccaaggc   360
tcattctgag aagcaggcgg gttgggtggg                               390
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<210> 154

<21 I> 398

<212> DNA

<213> Homo sapiens

<400> 154

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ggctcccagc aagggtagga cgggccgcat gcgggcagaa agttgggact gagcagctgg   60
gagcaggcga ccgagctcct tccccatcat ttctccttgg ccaacgacga ggccagccag   120
aatggcaata aggactccga atacataata aaagcaaaca gaacactcca acttagagca   180
ataacggctg ccgcagcagc cagggaagac ctgtgttggg ttatgtgtc agtttcactt   240
ttccgataga aatttcttac ctcatTTTT taagcagtaa ggcttgaagt gatgaaaccc   300
acagatccta gcaaatgtgc ccaaccagct ttactaaagg gggagggaagg gagggcaaag   360
ggatgagaag acaagtttcc cagaagtgcc tggttctg                               398
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<210> 155

<21 I> 562

<212> DNA

<213> Homo sapiens

<400> 155

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gaagaacctt cgaaacctgt ttgtcccag cccaccccca gtggatggga tgcataatgc   60
cagcaagttt tgttaacag caaaaaagga agattaatgc aggtgttata gaagccagaa   120
gagaaactgt gtcaccctaa agaagcatat aatcatagca ttaaaatgc acacattact   180
ccaggtgga ggtggcaatt gctttctgat atcagctcgt ttgatttagt gcaaaaatgt   240
ttcaagact atttaattga tgaaaaaaag cctatttcta cattatacca actgagaaaa   300
aaatggtcgg taaagtgttc ttcataata aataatcaag acatgggtccc attgcagga   360
aaagtgcaga ctctgagtgt tccagggaag cacatgctgg acatcccttg taaccggta   420
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tgggcgcccc tgcattgctg ggatgtttct gccacgggtt ttgtttgtgc aataacgtta 480
tcacatttct aatgaggatt cacattaata taatataaaa taaataggtc agttactggt 540
ctctttctgc cgaatgttat gt 562

<210> 156
<211> 268
<212> DNA
<213> Homo sapiens
<400> 156

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tgtaacttat tgggttgccg aagcctggta aagctgttgg aatgagtatg tgattctttt 120
taagtatgaa aataaagata tatgtacaga ctgtatttt ttctctgggtg gcattccttt 180
aggaatgctg tgtgtctgtc cggcaccccg gtaggcctga ttgggtttct agtcctcctt 240
aaccacttat ctcccatatg agagtgtg 268

<210> 157
<211> 490
<212> DNA
<213> Homo sapiens
<400> 157

ccctgaccca attgtcatca accatgtcat cagcgtggac ccttcagacc agaagaagac 60
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cctcctatcc acggccaacc agcaggagat cagtcctctg gacagtaaga tccatgagac 180
gattgagtc ataaccagc tcaagatcca gagggacttc atgctaagct tctccagaga 240
ccccaaaggc tatgtccaag acctgctccg ctccagagc cgggacctca aggtgatgac 300
agatgtagcc ggcaacctg aagaggagcg ccgggctgag ttctaccacc agccctggtc 360
ccaggaggcc gtcagtgcct acttctactg caagatccag cagcgcaggc aggagctgga 420
gcagtcgctg gtgtgtcgca acacctagga gcccacaaac aagcagcacg acggaacttt 480
cagccgtgtc 490

<210> 158
<211> 496
<212> DNA
<213> Homo sapiens
<400> 158

cgctctcgtt tcattttctg cagcgcgcca cgaggatggc ccacaagcag atctactact 60
cggacaagta cttcgacgaa cactacgagt accggcatgt tatgttacc agagaacttt 120
ccaaacaagt acctaaaact catctgatgt ctgaagagga gtggaggaga ctgtgtgtcc 180
aacagagtct aggctgggtt cattacatga ttcatgagcc agaaccacat attcttctct 240
ttagacgacc tcttccaaaa gatcaacaaa aatgaagttt atctggggat cgtcaaatct 300
tttcaaat taatgtatat gtgtatataa ggtagtattc agtgaatact tgagaaatgt 360
acaaatcttt catccatacc tgtcatgag ctgtattctt cacagcaaca gagtcagtt 420
aaatgcaact gcaagtaggt tactgtgaaga tgtttaagat aaaagtctt ccagtcagtt 480
tttctcttaa gtgcct 496

<210> 159
<211> 508
<212> DNA
<213> Homo sapiens
<400> 159

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cgtgggaggc accttgggt tccagtgcc cagcacttg tagtctcacc ccagattact 120
aaccttctct gatctggag aggcaggat agtaataaa ttgctctcc taccccatcc 180
cccatccct gacaaaaagt gacggcagcc gtactgagtc tgtaaggccc aaagtgggta 240
cagacagcct gggctggtaa aagtaggtcc ttattacaa ggctgcgta aagttgtact 300
aggcaaacac actgatgtag gaagcacgag gaaaggaaga cgtttgata tagtggtact 360
gtgagcctgt cagtgtggg taccaatctt ttgtacata ttgcatgct gaggtgtgac 420
acctgctga ctcactgtat gtaaacatccc cccagagctg gcgagaggat ggagctgggt 480
ggaaactgct ttgcactatc gtttgctt 508

<210> 160

<211> 370

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (251)..(251)

<223> n is a, c, g, or t

<400> 160

gaagatgagt ctatggcacc aggttcttaa acccaggaaa gcacctacag accggctcct 60
ccatgcactt taccagctca acgcatccac tctctgttct ctggcaggg cgggggaggg 120
gggataggag gtcccccttc ccctaggtgg tctcataatt ccatttggg agagaacagg 180
agggccagat agataggtcc tagcagaagg cattgaggtg agggatcatt ttgggtcaga 240
catcaatgtc nctgtcccc ctgggtccag ccaagctgtg ccccatcccc caagcctcct 300
gggaggatcc agccaaatct tgcgactcct ggcacacacc tgtctgtaac ctgtttgtg 360
ctctgaaagc 370

<210> 161

<211> 544

<212> DNA

<213> Homo sapiens

<400> 161

aagatagccc aacctagctc agatccacca agataagcac agcaaaagct tggctgcatt 60
tttaggaat aaaaacctgc agaaagcacc gataacctc aagatctgaa tgagattcta 120
ttataaccg tctaaacgat tgcaaaatc ctcctttggt ttggaagca gcgtttgctc 180
tcccgtggct cggattctct gaggaccagg gagttgacac acaaaccg ccatgggtcc 240
gagccagcta ttctcaagg ctcccacctc gccaaagctcc caagggcctg ctggcagtgc 300
ctacgtgtg ccaactacc tgtctggtac agaccacggc tgggtaagca ccctaaaag 360
caacagaaat gacgtctgga agctgaaatg tgaaactgtc aagatggctt aggagaggaa 420
ggagtggacc cgctggtctt tggcattttg tatttagaat tattctaact ttatacataa 480
tgtataggcc gatcttttgg aagggataag gtttcattc ttgtgcaact cattattctc 540
atta 544

<210> 162

<211> 412

<212> DNA

<213> Homo sapiens

<400> 162

atggagatgg tactggagtc gccagtattt accgggggccc atttgcagat gaaaatttta 60

aacttagaca ctacgtcca ggccgtgctt ccatggcgaa cagtgggtcca agtacaaatg 120
 gctgtcagtt cttatcacc tgctctaagt gcgattggct ggatgggaag catgtggtgt 180
 ttggaaaaat catcgatgga cttctagtga tgagaaagat tgagaatgtt cccacaggcc 240
 ccaacaataa gcccaagcta cctgtgtgga tctcgcagtg tggggagatg tagtccagac 300
 aaagactgaa tcaggccttc ccttctctt ggtggtgttc ttgagtaaga taatctggac 360
 tggcccccgt ctttcttcc ctgcctgctg ctgccccatt tgatcaagag ac 412

<210> 163

<211> 569

<212> DNA

<213> Homo sapiens

<400> 163

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 tcgaaaagtg aaaataatat taggacgaaa tagaaaagaa aatctggaac caaatgctga 120
 atttgataaa agaactgaat ttattacaca agaagaaaac agaatttga gttcaccggt 180
 acagtcttta ctgacttgt ttacagactag tgaagagaaa tcagaatttt tgggtttcac 240
 aagctacaca gaaaagagtg gtatatgcaa tgttttagat atttgggaag aggaaaattc 300
 agataatctg ttaacagcgt ttttctcgtc ccctcaact tctacattta ctggctttta 360
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 aatatgtatg gaaattctta ggatttttt accagcttgg ttacagacc caaatgtaaa 480
 tatataaat aaattttgc aattttctac agaattgaat acctgttaaa gaaaattac 540
 agaataaact tgtgactggt ctgtttta 569

<210> 164

<211> 375

<212> DNA

<213> Homo sapiens

<400> 164

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 ttggggccaa gctgtactcc acgtccatcg acatgtggc agccggctgc atctttgcag 120
 agctggccaa tgctgggagg cctcttttc ccggcaatga tgtcgatgac cagttgaaga 180
 ggatcttccg actgctgggg acgcccaccg aggagcagtg gccctctatg accaagctgc 240
 cagactataa gccctatccg atgtaccgg ccacaacatc cctggtgaac gtcgtgccca 300
 aactcaatgc cacaggagg gatctgctgc agaacctct gaagtgtaac cctgtccagc 360
 gtatctcagc agaag 375

<210> 165

<211> 549

<212> DNA

<213> Homo sapiens

<400> 165

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 tgattggccc cagtcacctt gttgtccct tctacaggca tgaggaaatc gggaggccct 120
 gagacaggga ttgtgttca ttcaatcta ttgttcacc atggccttat gaggcagggt 180
 agagatgttt gaattttct cttccttta gtattcttag ttgtcagtt gccaaaggatc 240
 cctgatccca tttcctctg acgtccacct cctaccccat aggagttaga agttagggtt 300
 taggcatcat ttgagaatg ctgacacttt tcagggtctg tgattgagtg agggcatggg 360
 taaaaatatt tctttaaaag aaggatgaac aattataatt atatttcagg ttatatcaa 420
 tagtagagtt ggctttttt tttttttt ggtcatagt ggtggatttg ttgccatgtg 480
 caccttgggg ttttgaatg acagtgttaa aaaaaagca tttttttt atgattgtc 540

tctgtcacc

549

<210> 166

<211> 230

<212> DNA

<213> Homo sapiens

<400> 166

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tttcattgg atgcagtgt atagttttac actctagtgc catatatitt taagactttt 120
ctttccttaa aaaataaagt acgtgtttac ttggtgagga ggaggcagaa ccagctcttt 180
ggtgccagct gtttcatcac cagactttgg ctcccgttt ggggagcgcc 230

<210> 167

<211> 329

<212> DNA

<213> Homo sapiens

<400> 167

atccccttag tgctctgaaa tatttataaa atgatcttta tataactgtg gatcattcag 60
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attttacagc tctgggcttt tctgatgtgg atcacaccta tgctcaaaga actcagctct 180
ttgacacctt agtaaatttc tttcctgaca gcatgactcc tcctaaaggc aacctcgtag 240
acctgatcac actgtaactg aagagtcact ggacacagaa atggaaaaca ggagtcgatt 300
ttccgtcttt tggattgcag ctccactga 329

<210> 168

<211> 437

<212> DNA

<213> Homo sapiens

<400> 168

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ccatcttgcc ttaggaaacag ccttccccca ccagcagcca tggctggctg gggcgtagc 120
caagccacct actgccagga attggagcct cagttccctc ctgtgtcaag tagctaactg 180
cagcagctgg actgagggca gagtctgtgg gtgcagagac cctgcatgta ggacacaggt 240
tgaggccag ccactctccc tggggcctgg tgggtaggca agtagctctg gggccacctc 300
aagtgaccaa atgctattaa ttccatcct ttacagagct gggccctagg caggaagctg 360
gcttctggga gaggagttag aacgtgcagg gcctgcctag ctgctgtgct tgagggaaggt 420
ggcattccgt gcttgcc 437

<210> 169

<211> 554

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (52)..(52)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (59)..(59)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (252)..(252)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (513)..(513)

<223> n is a, c, g, or t

<400> 169

```
gccttctggg aacctatgga gaaaggggaat ccaaggaagc agccaaggct gntcgcagnt   60
tcctgagct gcacctcttg ctaacccac catcacactg ccacctgcc ctaggtctc   120
actagtacca agtgggtcag cacagggtcg aggatggggc tcctatccac cctggccagc   180
accagctta gtgtgggac tagccagaa acttgaatgg gacctgaga gagccagggg   240
tccctgagg cncacctagg ggcttctgt ctgcccagg gtgtccatg gatctccctg   300
tggcagcagg catggagagt cagggtgcc tcatggcag taggtctaa gtgggtgact   360
ggccacaggc cgagaaaagg gtacagctc taggtggggg tccaaagac gccttcaggc   420
tggactgagc tgcttccca cagggttct gtgcagctgg atttctctg ttgcatacat   480
gcctggcatc tgttcccct tgttctgag tgncccaca tggggctctg agcaggctgt   540
atctggattc tggc                                     554
```

<210> 170

<211> 309

<212> DNA

<213> Homo sapiens

<400> 170

```
ctcgaattc cctgaagcaa cactgccaga agtgtgttt ggtatgcact ggttcctaa   60
gtggctgtga ttaattattg aaagtggggg gttgaagacc ccaactacta tttagagtg   120
gtctattct ccttcaatc ctgtcaatgt ttgtttatg tatttgggg aactgtgtt   180
tgatgtgat gtgtttataa ttgtataca ttttaattg agcctttat taacatatat   240
tgttatttt gtctcgaaat aatttttag ttaaaatcta tttgtctga tattggtgtg   300
aatgctgta                                     309
```

<210> 171

<211> 302

<212> DNA

<213> Homo sapiens

<400> 171

```
cctccctatc gtctgaacag ttgtcttct cagcctcctc ccgccccac cttgggaatg   60
taaatacacc gtgactttga aagtttgtac ccctgtcctt cctttacgc cactagtgtg   120
taggcagatg tctgagtcct taggtggtt ctaggattga tagcaattag ctttgatgaa   180
cccatcccag gaaaaataaa aacagacaaa aaaaaggaa agattgggtc tcccagcact   240
gtcagcagc cacagcctcc ctgtatgcct gtgcttggtc tactgataag ccctctacaa   300
aa                                     302
```

<210> 172

<211> 491

<212> DNA

<213> Homo sapiens

<400> 172

tgctctgccc cagcttgggc agatctccca catgccaggg gcctttgggt gctgttttgc 60
 cagccccattt gggcagagag gctgtgggtt gggggagaag aagtaggggt ggcccgaag 120
 ggtctccgaa atgtgtctt tcttctccc tgactggggg cagacatgtt ggggtctct 180
 caggaccagg gtggcacct tccccctccc ccagccactc ccagccagc ctggctggga 240
 ctgggaacag aactcgggtt ccccaccatc tgctgtctt tctttgcat ctctgtcca 300
 accgggatgg gagccgggca aactggcgc gggggcaggg gaggccatct ggagagccca 360
 ggtcccccc actccagca tcgactctg gcagaccgc ctctccgc cgcccagccc 420
 accccatggc cggcttcag gagctccata cacacgtgc ctccgtacc caccacaaa 480
 catccaagt g 491

<210> 173
 <211> 122
 <212> DNA
 <213> Homo sapiens
 <400> 173

ccggggctgg tttctatga acgattccgg cctgggatgc gggccaggct gcaggcggca 60
 tagttgggcc cattctctt ggaaggacgac tggggggtcc caactagcc ctgggtgggc 120
 eg 122

<210> 174
 <211> 536
 <212> DNA
 <213> Homo sapiens
 <400> 174

attccgatcc caatgagcaa gtgacaagaa aaaacatgct cctggctaca aaacagatat 60
 gcaaagagtt caccgacctg ctggctcagg accgatctcc cctggggaac tcacggccca 120
 accccatctt ggagcccggc atccagagct gcttgacca cttaacctc atctcccacg 180
 gcttcggcag ccccgcggtg tgtgccgagg tcacggcctt gcagaactat ctaccgagg 240
 cctcaaggc catggacaaa atgtacctc gcaacaacc caacagccac acggacaaca 300
 acgcaaaaag cagtacaaa gaggagaagc acagaaagt aggtctctt cccgccccgc 360
 cctcccacg cctcaccagc cccccgcgc cccacctcc ggcgggtgac agctccggga 420
 tcagcaacc ttctgtctg tgctactgt gctgtgtct cgcgcgcgc cgccgccgt 480
 gcccttgggt ccccccagat ctccgggact gccctctga ctgtcagtgg ggcagc 536

<210> 175
 <211> 487
 <212> DNA
 <213> Homo sapiens
 <400> 175

gatgatttct cgaagccat gccagaagca gtcttcagg tcattctgta gaactccagc 60
 tttgtgaaa atcaggacc tcagctacat cataactga ccagagcaa agcttccct 120
 atggttcaa gacaactagt attcaacaaa cttgtatag tgtatgttt gccatattta 180
 atattaatag cagaggaaga ctcttttt catcactga tgaattttt ataattttt 240
 tttaaataat attcatgta tacttataa ctaattcaca caagtgttg tcttagatga 300
 ttaaggaaga ctatatctag atcatgtctg atttttatt gtgactctc cagccctggt 360
 ctgaatttct taaggtttta taaacaaatg ctgctattta ttagctgcaa gaatgcactt 420
 tagaactatt tgacaattca gacttcaaaa ataaagatgt aatgactgg ccaataataa 480
 ccatttt 487

<210> 176

<211> 504

<212> DNA

<213> Homo sapiens

<400> 176

```
ccggctatgg gctcgagccg agttccttca acatgcactg cgcgcccttt gagcagaacc 60
tctccgggggt gtgtcccggc gactccgccca aggcggcggg cgccaaggag cagagggact 120
cggacttggc ggccgagagt aacttccgga tctaccctg gatgcgaagc tcaggaactg 180
accgcaaacg agggccgccg acctacaccc gctaccagac cctggagctg gagaaagaat 240
ttactacaa tcgtacctg acgcggcggc ggcgcatcga gatcgcgcac acgctctgcc 300
tcacggaaag acagatcaag atttggtttc agaaccggcg catgaagtgg aaaaaggaga 360
acaagaccgc gggtcccggg accaccggcc aagacaggcg tgaagcagag gaggaagagg 420
aagagtggag gatggagaaa gggcagagga agagacatga gaaagggaga ggaagagaag 480
cccagctctg ggaactgaat cagg 504
```

<210> 177

<211> 356

<212> DNA

<213> Homo sapiens

<400> 177

```
gaatcaggaa actcaaatcg aatagggaag taaaaaaaca aaacaaaaaa caaaaaaaa 60
caaaaaaaa ccctatttaa atgaaaggag tttaaaaca tttttaagg agggagaaag 120
gagaaatttt ggttttcaa cactgaaaaa atagtaccta taggaaagtc tgtcaggttt 180
ggttttttg tacaatatga aaaggacatt atctacctgt tctgtagctt tctggaattt 240
acctccctt tctatgttg ctattgtaag gtctttgtaa aatctgcag tttgtaagc 300
cctcttaat gctgtcttg tggactgtgg gtctggacta accctgtggt tgcctg 356
```

<210> 178

<211> 225

<212> DNA

<213> Homo sapiens

<400> 178

```
ccgagctgaa gaaccagcgg ctcaaggagg tttccagac caagatccag gatttccgca 60
aggcctgcta cagctcacc ggctaccaga tcgacatcac cagggagaac cagtaccggc 120
tgacctgct gtacgccgag caccaggcg actgctcatt tcaaggcca ccagccctc 180
gggtccaag atgcagctac tggagacaga gttctcacac accgt 225
```

<210> 179

<211> 380

<212> DNA

<213> Homo sapiens

<400> 179

```
tactgcttgc agtaattcaa ctggaaatta aaaaaaaaaa actagactcc attgtgcctt 60
actaaatag ggaatgtcta acttaaatag ctttgagatt tcagctatgc tagaggcttt 120
tattagaaag ccatattttt ttctgtaaaa gttactaata tatctgtaac actattacag 180
tattgctatt tataatcatt cagatataag atttgatcat attatcatcc tataaagaaa 240
cggtatgact taattttaga aagaaaatta tattctgttt attatgacaa atgaagaga 300
aaatatatat ttttaatgga aagttttag catttttcta ataggtactg ccatattttt 360
ctgtgtggag tattttata 380
```

<210> 180

<21> 440

<212> DNA

<213> Homo sapiens

<400> 180

```
tgcctgctgg ggattactcg atcaaacct tcctccctg gctactccc ttctcccgg 60
ggccttcctt ttaggtgctg gagctggagg ggtggggagc tagaggccac ctatgccagt 120
gctcaagggt actgggagtg tgggctgccc ttgtgcctg caccctccc tctccctct 180
ccctctctct gggaccactg ggtacaagag atgggatgct cgcacagct ctccaattat 240
gaaactaatc ttaacctgt gctgtcagat accctgggtt tctggagtca cagtcagtga 300
ggaggatgtg gtaagaggag gcagagggca ggggtgctgt ggacatgtgg gtggagaagg 360
gagggtggcc agcactagta aaggaggaat agtgcttgc ggccacaagg aaaaggagga 420
ggtgtctggg gtgagggagt 440
```

<210> 181

<21> 518

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (41)..(41)

<223> n is a, c, g, or t

<400> 181

```
gcttttacgg tgatattgt catgcaaacc aggagcattt nggtGttaa gaaaaataat 60
cttagaacag atggctgtga aaattacacc catgcacaga acaagccaca ggaataatag 120
tcaggattt gggtttctc ttttcttgt aaacctggag ggtgatata ttcttccat 180
gcagtatta gaactagtt ttgtccaac agttaaactt gcaatgaaa gaaaatgtgc 240
cattttttc actcagaatt atcatagct gtatattga aactgctaatacacacgtg 300
tgatgtatgt tggttttta gtgcaatttc ttctgtagct attcttgac caaactgtgg 360
gtattgttaa tattaattta tattgtctc attttgatg tatgttagt gtgtttgtga 420
gtatgtgtgg ttataatct gacaaagtca tgaagctcag ttggctgta attaatcc 480
cctccctta ttttattta tttgttact gtgctgat 518
```

<210> 182

<21> 538

<212> DNA

<213> Homo sapiens

<400> 182

```
caggtatgtt gccttatgg ttccccctt ctacattct tagactacat ttagagaact 60
gtggccgtta tctggaagta accatttgca ctggagtct atgctctgc accttccaa 120
agttaacaga tttgggggt gtgtgtcac ccaagagatt gttgttgcc atactttgtc 180
tgaaaaattc cttgtgtt ctattgact caatgatagt aagaaaagt gttgttagt 240
atagatgtct aggtacttca ggggcacttc attgagagt ttgtctgcc atactttgtc 300
tgaaaaattc cttgtgtt ctattgact caatgatagt aagaaaagt gttgttagt 360
atagatgtct aggtacttca ggggcacttc attgagagt ttgtcaatgt ctttgaata 420
ttccaagcc catgagctct tgaataajt tttatatat acagtaact tatgtgtaa 480
tacataagcg gcgtaagtt aaaggatgtt ggtgtccac gtgtttatt cctgtatg 538
```

<210> 183

<211> 498

<212> DNA

<213> Homo sapiens

<400> 183

```
tcagtctctc aaagacccca tggatccatcc cctgaggggtg gtcagccaag gctcccgttc   60
cgtgggatgc cataaaagcc gccagtgagg acccacagtc acacagagcg ctcacctgc   120
atcctctccc ccacaagagc cccaaagatc ccacgggaga ggggagaggg acgcacagca   180
ctgcttgcca agcgagaatg caggccccgc cccctcggcc cctcaccacc tcttctaca   240
gcctaattta ttggattccc tattctagc catctccgtg gccaatgtga ctaccgtgcc   300
agcagcgggg gcgggccagc ctctgagtc cgtggggccc cggctccac cggtgccaaa   360
cccagccctt gcgccgtca ccccgccagc ctactctgcc agccgccacc ggggcacacg   420
ggcctctgct tgccagccag gagtgcggac accatgttcc cagctcagt ccaaagaggg   480
gtcaccaggg ggagctgt                                     498
```

<210> 184

<211> 421

<212> DNA

<213> Homo sapiens

<400> 184

```
cttactgtgt ttacgtcac ttctttctg tgaaagggtg cttactttt ttttgacat   60
ttgtgttct ttatataaaa ataacagatt ggatagatgt gtacatttg tgttgaaat   120
tctctgaaaa tcccattagg aaaccaggtg tgaaaagggc tcagtagctt ctctgagtg   180
cgtttttagc tgactggaag tgcttaatct ggatcgtctt tttttttt ttttttca   240
atattttaa aggagaattt aaatactgtg cttactgtga aatatatcag ttggtgagcc   300
gggcgtggtg ggtcacgcct gtaatccag cactttggga ggccaaggcg ggtggatcac   360
ccgaggtcag gagttaaga ccagcctggc caacgtggtg aaagcctgta tctattaaaa   420
g                                     421
```

<210> 185

<211> 498

<212> DNA

<213> Homo sapiens

<400> 185

```
gtcctttgca acatttcat aaaattgggc acagagttcg cattggcgca atatttatgg   60
gagtgggagg gatggggaaa ataaactta cttacaaaa gcaaactcta atgcatgcaa   120
gaatcattag gttggcaggt atatgcataa gtgaaaaatc tggaagtga atggtagaac   180
ataaaacttg tattgttct gttcagtcg aaaaatgtac tagccaatc gcttaagtgt   240
gtggcccatg aattgaacaa ttaaccttg aagtctatat ccgtgataat atgtcgattt   300
ttaactgagg ggaaattaac tagtcagcc taaaatgctt ctttaatct gcattctgtt   360
tcctcttcta gttgtgcat tactagtgt catgttttt tccccctt aatgaaaaca   420
ataaacatct atttgagaca attaaaatcc ttctgggggc actggaagca caatacggtg   480
accaatcttg ctttcatt                                     498
```

<210> 186

<211> 426

<212> DNA

<213> Homo sapiens

<400> 186

```
gatgcctcct gattatattt cacatttca ggaacaaaat gatttaaaag cattgctaga   60
aaatctcctt caaaatatcc aatccaaaaa agaaaagaat gtagaaatta tgtggctggc   120
tgcaacgatt tgccgcaaac tgaatggtat tcgttcacc tgttgtaaaa gtgccaaaga   180
```

caggacatcg atgtcagtga cacttgaaca atgctcaatc ttgagagatg agcaccagt 240
 acacaaggac ttctttatcc gagcgctgga ttgcatgaga agagaaggat gccgcataga 300
 gaatgtactg aagaatatca aatgcagaaa gtatgctttc aacatgctac agctgatggc 360
 ttccccaag tactacagac ctccagaggg gacttatgga aaagctgaca cctaagtta 420
 ccaaca 426

<210> 187

<211> 419

<212> DNA

<213> Homo sapiens

<400> 187

tgaaaggcag gacctggtca cccagcaag tgctatggac agttcccga aacggttgc 60
 cacttcacag gtccatgggt ctgaccctg gactctgcca ggatcaactg cccagagtgc 120
 cagagttta gccaaagggt tacttacttc ctattttatc tcaaaaagga tggaaactgt 180
 gggagtcaaa gcctattttg ctgagtgtc ccaactggatc ctctgtagaa ttagcaggtc 240
 atgtgtcaaa aatcatggac aaaggctggg tgcaaggct catgcctata atcccagcac 300
 ttggggaggc caagggtggg ggtcacctg agctcaggag tttaagacca gcctgggcaa 360
 catggggaaa ctccatctct acaaaatata caaaatatta gccagccatc gtggtgcgt 419

<210> 188

<211> 481

<212> DNA

<213> Homo sapiens

<400> 188

gccgtcacc gaagtcagaa acgtggcatc tcacggaag aggaggaagg agaggtagac 60
 agtgaagtag agctgacatc aagccagagg tggcctcaga gcctgaacat gcgccagtca 120
 ctatctacct tcagctcaga gaatccatca gatggggagg aaggcacagc tagtgaacct 180
 tccccagtg gcacacctga agttggcagc accaactg atgagcggcc agatgagcgg 240
 tctgatgaca tgtgtccca gggctcagaa atcccactgg acccacctcc ttcagaggtc 300
 atccctggcc ctgaaccag ctccctgccc atccacacc aggaactct cagagagcgg 360
 ggccctccca attctgagga ctgagactgt gacagcactg aattggacaa ctccaacagc 420
 gttgatgcct tgcggcccc agcttccctc cctccatgaa agccactcgt attcctgta 480
 c 481

<210> 189

<211> 424

<212> DNA

<213> Homo sapiens

<400> 189

acttctcacc agcagtcgtg gggaacggag gaggacatgg ggaggttgtg gggcctcagg 60
 ctccgggcac caggggccaa cctcaggctc ctaaagagac atttccgcc cactcctggg 120
 aactcctgct tgcctcaatg actgagcagc atccacccca cccatcttt gctgccagct 180
 ctgaggaccg tgcctctgct agctgggatg tgaagtctct ggggtggaagt gtgtgccaag 240
 agtactccc acagcagccc caggagaagg gcctttgtga ccagaaagct tcacccacag 300
 ccttgacgct gctcctgcaa aaggagggtga aatccctgcc tcaggccaag ggaccagggt 360
 tgcaggagcc cccctagtgg tatggggctg agccctcctg agggccggtt ctaaggctca 420
 gact 424

<210> 190

<211> 515

<212> DNA

<213> Homo sapiens

<400> 190

```
aatgcagctg acgatccgtt ggtgcatgaa agtcttctaa ccattccaaa atctctttca   60
gagaaacgag agaacgtcat gtttgtgctg cctctgcatg gggggccactt gggtctcttt   120
gagggtctctg tgctgttccc cgagcccctg acatggatgg ataagctggt ggtggagtac   180
gccaacgcca ttgccaatg ggagcgtaac aagttgcagt gctctgacac ggagcaggtg   240
gaggccgacc tggagttagg cctccggact ctggcacgct ccagcagccc tcctctggaa   300
gctgcgtccc ctaccccctt gtttcaggtc tcccatctcc ctcaagtacc tggatctgac   360
ctcacacat cagcaggggg caccacat gcacacctgt ctggagtag gcagctcttc   420
ctgggagctc caggctattt ttgtgcttag ttactggttt tctccattgc attgtaggc   480
atggtgacaa gtgacagagt tcttccctc tgctc                               515
```

<210> 191

<211> 434

<212> DNA

<213> Homo sapiens

<400> 191

```
caggtgtatc tgcacagtgg tcgccccaca gcagaccatg tgttcacggg atgcccgcac   60
aaaacagctg aggagctac tggagaaggt gcagaacatg tctcaatcca tagaggtctt   120
ggacaggcgg acccagagag acttgcatga cgtggagaag atggagaacc aaatgaaagg   180
actggagtcc aagttaaac aggtggagga gagtcataag caacacctgg ccaggcagtt   240
taagggtcaa cttaaagag tttttcaat gctgcagtga ctgaagaagc agtcactcc   300
catgtaacca tgaaagagag ccagagagct tttgcacca tgcatttta ctattattt   360
ccaatactta gcaccattc actaaggaac ctgaataca accaggatcc tccttgcac   420
gcgactgtag ctgc                               434
```

<210> 192

<211> 403

<212> DNA

<213> Homo sapiens

<400> 192

```
aaaatgttgc gttctcagtc caaaaagaag tggaaaagaa tctgaagtca tgcttgaca   60
atgttaatgt tgtgtccgta gacactgcca gaacactatt caaccaagtg atggaaaagg   120
agttgaaga cggGatcatt aactggggaa gaattgtaac catatttga ttgaaggta   180
ttctcatcaa gaaacttcta cgacagcaaa ttgccccgga tgtggatacc tataaggaga   240
tttcatattt tgttcgggag ttcataatga ataacacagg agaatggata aggcaaacg   300
gaggctggga aaatggcttt gtaaagaagt ttgaacctaa atctggctgg atgactttc   360
tagaagttac aggaaagatc tgtgaaatgc tatctctct gaa                               403
```

<210> 193

<211> 355

<212> DNA

<213> Homo sapiens

<400> 193

```
ggctgggagt tgattgagcc aacactggat caattagatc aaaagatgag agaagctgaa   60
acagaaccgc atgagggaaa gaggaaagtg gaatctctgt ggcccatctt caggatccac   120
caccagaaaa cccgtacat cttcgacctc tttacaagc ggaaagccta cagcagagaa   180
ctcttagata tatgtataa agaaggctta gcagacaaaa acctgttggc aaaatggaaa   240
aagcaaggta taggaaactt gtgtgcctg cgggtgcattc agacacggga caccaacttc   300
```

gggacgaact gcattctgccg cgtgccc aaa agcaagctgg aagtgggccg catca 355

<210> 194

<211> 527

<212> DNA

<213> Homo sapiens

<400> 194

gggtgtgtct ggccaggaag gcacaaggta gctgtgggcc aagacaccag ccctgtccta 60
gcccttcagt aagacctgc caggagagga gaaggatgcc tgggtgccag gcaagacaag 120
cccctcagca ggagagaggc ccagaggctc cagctggcca ccgtgcccc caagatggcc 180
cctgtgtgtt tcccttacc ttggttccct ggcccagtc ctgcctccc acctgcacc 240
tgcttcttg cccagtccta ggttgagtc cctctgcata gctgactact catgcattgc 300
tcaaagctgg cttttacat taagtcaaca ccaaactgtg ttgccacatt tcatcagaca 360
gacacctccc tctggagatg cagttgagtg acaacctgt tacattgtag cctagaccaa 420
ttctgtgtg atatttaagt gaacatgtt acaattttg tatatatcac tctctccc 480
tctgaaaga ccagagattg tgtatttca gtgtcccatg ttccgac 527

<210> 195

<211> 531

<212> DNA

<213> Homo sapiens

<400> 195

aacagaaagt ctacgccag gatggggctt ctcaacagg cccctgccct cctgaagcct 60
cagtccttca ccttgccagg tgcgtttct ctccgtgaa ggccactgcc caggtcccca 120
gtgcgcccc tagtgccat agcctgtta aagttcccca gtgctcctt gtgatagacc 180
ttcttccc accccttct gccctgggt ccccgccat ccagcggggc tgccagagaa 240
ccccagacct gcccttacag tagttagcg cccctccct ctttggctg gtgtagaata 300
gccagtagtg tagtgcggtg tgctttacg tgatggcggg tgggcagcgg gcggcggcgt 360
ccgcgcagcc gtctgtcct gatctgccg cggcgggccg tgtgtgtt tgctgtgt 420
ccagcgctaa ggagacccc tccccgtac tgacttctc tataagcgt tctctcgca 480
tagtcacgta gctccacc caccctctc ctgtgtctca cgcaagttt a 531

<210> 196

<211> 441

<212> DNA

<213> Homo sapiens

<400> 196

ctggcctgc taaggtctg gaactgcct gcctttccat ccatggccag cagcacctgc 60
cctacctgcc cacttgttc ttagcctgga cctctgacag cagcatctct accttccc 120
cagctccag gaccacaggc tcaggcagg cctccatggg cccagggga aactgggga 180
ctggcctct cttagggta catgtgtc ggagaggcag ccaggaagt ctcattggg 240
gagcaggcag ccagcatctg ggcctggcc tggagcaca agacctggc ttcatctt 300
tctcagtgta aaggaaatta aggcaacaaa agaagcccgg ctctgggtca ctaggaagc 360
ctcagattcc ttccatgga gggaggaggt ggttgcagg tggccaagt cctctaact 420
ggctcacact cgacatgaaa a 441

<210> 197

<211> 552

<212> DNA

<213> Homo sapiens

<400> 197

gcagtccta ttagctaaaa gccattaag acaagaaaca caggaagccc ctggtcccag 60
agaagaagca aagggccagg tagaggccag aaggagctct ttgatcctg tccaggagcc 120
tggggggccag gcagaggctg atggagatgt tccagggccc agaggggaag ctgagggcc 180
ggcagaggct aaaggagatg cccctgggcc cagaggggaa gctgagggcc aggcagaggc 240
taaaggagat gccctgggc ccagagggga agctgggggc caggcagagg ccaggagaa 300
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ctttgagggt cacattgttc aagtggagaa tgatgagatc tagatctaa gatacaggt 420
cccacagaag tctcagtgc agaacataag cctgaagtg ggcaggggaa atgtacgtg 480
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<210> 198

<211> 467

<212> DNA

<213> Homo sapiens

<400> 198

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atgagcctgg caagaatgcg tttaacttg gttttaaaa aactgctgac tgtttctct 180
tgagagggtg gaatatccaa tttcgtctgt gtcagcatag aagtaactta cttaggtgtg 240
ggggaagcac cataacttg tttagccaa aaccaagtca agtgaaaaag gaggaagaga 300
aaaaatattt tctgccagg catggaggcc cagcacttc gggaggtcga ggcaggagga 360
tcaactgagt ccagaagttt gagatcagcc tgggcaatgt gataaaacc catctctaca 420
aaaagcataa aaattagcca agtgtgtag agtgtgcctg aagtccc 467

<210> 199

<211> 562

<212> DNA

<213> Homo sapiens

<400> 199

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cattttttt agataatcta agctagaaaa atgacattga attctggacc tggctggaag 180
gaaaagaagc ctttcttgt cgctggcagc tgtgtgtag gaggtccaag tatgtgcata 240
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gttatgccac cttcttgcc ttaatggcat taaatgaaat ttaggaag aaggttttg 480
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<210> 200

<211> 432

<212> DNA

<213> Homo sapiens

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<223> n is a, c, g, or t

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<222> (46)..(46)

<223> n is a, c, g, or t

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<223> n is a, c, g, or t

<400> 200

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ctttgccttc cccctcagc aaggggctgc ttctggggct ccctgcctgg atccagctct   180
gggagccctg ccgaggtgtg gctgtgaggt cagggttta gagagcagtg gcagaggtag   240
ccccctaat gggcaagcaa ggagccccc aaanacacta ccactccca tccccgtctg   300
accaagggtc gacttctcca ggacctagtc ggggggtggc tgccaggggg caaggagaaa  360
gcaccgacaa tctttgatta ctgaaagtat taaatgttt gccaaaaa acagccaaaa   420
caaccaaact at                                     432
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<210> 201

<211> 353

<212> DNA

<213> Homo sapiens

<400> 201

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ggtccctcta ttatgcaa gccgacctat gctacagccc cccaacccc gacctggggt   120
aggaggaag aggggtgccg ggaaggaggt ccgccctgtc caggcactag aggctccctt  180
gacgtttggc agatgaaaa caactaagcc ttttgaggt gtagagattc tcaggtccag   240
gcgttaaaaa ataagtgtca aaagaataat acaaaaatag taaaggtctt gaagaatgcc  300
agcgaagcaa ttcttttta ttgaggaca ctgtctggt gtacttttc atg             353
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<210> 202

<211> 546

<212> DNA

<213> Homo sapiens

<400> 202

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gaagtgttgg tgcatggacg actgaacaca atcaactgtg aggaaggaga taaactgaaa  180
ctcaccagct ttgaattggc accgaaaagt gggaataccg gggagttgag atctgtaatt  240
catagtcaca tcaaggatcat caagaccagg aaaaacaaga aagacatact caatcctgat  300
tcaagtatgg aaacttcacc agacttttc ttctaaaatc tggatgtcat tgacgataat  360
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gtttatggag ataaggtcta agtccctaaa aaaatgtaca tatacctggt tgaaatacaa 420
cactatacat acacaccacc atatatacta gctgttaatc ctatggaatg ggggtattgg 480
gagtgccttt ttaattttc atagtttttt ttaataaaaa tggcatattt tgcattctaca 540
acttct 546

<210> 203

<21 1> 246

<212> DNA

<213> Homo sapiens

<400> 203

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ggagccgccc acctgccctg ctgcgtgccc gcgcgcctgt cggccatctc cgtgctcttc 180
tttgacaaca gcgacaacgt ggtgctgcgg cagtatgagg acatggtggt ggacgagtgc 240
ggctgc 246

<210> 204

<21 1> 470

<212> DNA

<213> Homo sapiens

<400> 204

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ggccaagcac agtgcgatg gcgaatcctt gtccagtga ctgcagcagc tggggctgcc 180
caaaagcac gcggccagcc tgtgccgctg ttatgaggag aagcaaagcc ccttcagaa 240
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gggctgagga gaagggtgtt ccaggcctgt gtggagccgc cctgcccgtg ttgagtcacg 360
ccctctgaac tgctctcgg gaggcagccc tggttctagg atgctgaggc cctggcccgg 420
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<210> 205

<21 1> 469

<212> DNA

<213> Homo sapiens

<400> 205

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gcctcctgaa agcatcatgt accggaagt cactacagag agtgatgtat ggagcttcgg 180
ggtgatcctc tgggagatct tcacatatgg aaagcagcca tggttccaac tctcaaacac 240
ggaggtcatt gagtgcatta cccaaggtcg tgttttgag cggccccgag tctgccccaa 300
agaggtgtac gatgtcatgc tgggtgctg gcagagggaa ccacagcagc ggtgaacat 360
caaggagatc taaaaaatcc tccatgcttt ggggaaggcc accccaatct acctggacat 420
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<210> 206

<211> 512

<212> DNA

<213> Homo sapiens

<400> 206

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tctcaccacc ccacctggat ggaccgccta gccccaggag ccccgtcata ggaagtgagg 120
 tcttctgcc caacagcaac cacgtggcca gtggcgccgg ggaggcagag gaacgcgttg 180
 tggatgatcag cagctcggaa gactcagatg ccgaaaactc gtctcccga gagctggatg 240
 acagcagcag tgagtccagt gacctccagc tggaaggccc cagcacctc agggctctgg 300
 acgagaacct tgctgacccc caagcagaag acagacctct ggtttcttt gacctcaaga 360
 ttgacaatga aagtgggttc tctggggct accccaccc ctttctaatt tagtctctga 420
 gtcccaaaaa gaagtgcagg cagagcatct gccaggccca ggagagctct gagctctggc 480
 caacaactgc agccaggctg ggcagagcac tc 512

<210> 207

<211> 488

<212> DNA

<213> Homo sapiens

<400> 207

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 cacgtgatg acaagtctct attgtgccc ttccactccg gatgggaccc tgaccacgga 180
 ggctctttt acttcagga tgctgataac ttctgcccc cccagctgga gtgggccatg 240
 aagctctggt ggccacacag tgaagccatg attgccttc tcatgggta cagtgcagt 300
 ggggacctg tgctgctgc cctctctac caagtggctg agtacacctt ccgccagttt 360
 cgcatcccg agtacggga atggttggc tacctgagcc gagagggcaa ggtggccctc 420
 tccatcaagg gaggtcctt caaaggctgc ttccactgc cgcggtgcct agccatgtgc 480
 gaggagat 488

<210> 208

<211> 459

<212> DNA

<213> Homo sapiens

<400> 208

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 gcttgtgagc ttgctgtgc gtcacaagag aaagcagctt cctgaagaaa agcagccact 180
 cctcatggag aaagaggatt accacagctt gtatcagagc cattataaa aggcttaggc 240
 aatagagtag ggcaaaaag cctgacctca ctctaactca aagtaatgc caggttccca 300
 gagaatatct gctggtattt ttctgtaaag accatttga aaattgtaac ctaatacaaa 360
 gtgtagcctt ctccaactc aggtagaaca cacctgtctt tgtcttgctg tttcactca 420
 gcccttttaa catttcccc taagcccata tgtctaagg 459

<210> 209

<211> 533

<212> DNA

<213> Homo sapiens

<400> 209

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 ttcttggtga cgccaggggc tggtaggtca ttcaaagctg tggccagctc acgcctgctt 120
 cctccctccc tgccctgctg aatcctaag ctgtgcctat atctgtgatt tgaatgagg 180
 agccctttgg ggcaattca ggtgccccca ttgctcagg ctggccctgg tcccagggtg 240
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 ttctcttggg gtacgtgcct gacagtgtt aaggtgtccg ttgaactgga gttgcagact 360
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ctgtcactca gacacctgtg gcatgtggag gagactgccc tgtcctgagc ctggaaaatg 480
 tgaaactgtc tcttgaacc tgctgggcat gtgggcctgg ctgtgttcaa ttg 533

<210> 210

<211> 438

<212> DNA

<213> Homo sapiens

<400> 210

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 tctgaaggtt ctgatgccag cacaattgaa attcactg caagtgaatc ctgcaacaaa 120
 aatgaggggtg acctgctct cccaacccat ggagacatat gaaggggatg tgctgggggt 180
 ccagacccca tattctcag actcaacaat tctgttctt tagaactgtg ttctcacctt 240
 cccaactg cactgccgaa gtgtagcggc cccaaacct tgctctcctc accagctaga 300
 gcttcttccc gaagggcctt taggatagga gaaaggggtc atgcacacac gtgtgagaat 360
 ggaagagccc cctccagacc actctacagc tgctctagcc ttagttgcca ctaggaagtt 420
 ttctgaggct ggctgtaa 438

<210> 211

<211> 135

<212> DNA

<213> Homo sapiens

<400> 211

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 cttcaccggg aagaagatgg aaatcataga tgacgatgta ccagcttcc acgcccattg 120
 ctaccaggag aaggt 135

<210> 212

<211> 440

<212> DNA

<213> Homo sapiens

<400> 212

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 ggagggcgcc ggcgcccggc gcgtcccca cctactggcc ttggctgtgc gcggccgcgc 120
 aggtggcggc gctggcgcc tggtgtctg gcaggcgga cttgtaggaa cgcggggctt 180
 cttggtgggg ccggagccga gaccagccg gagcgagcaa caggttggtg aaaaccctgt 240
 gtccttgag aaagctggtt ccgctttcc agagggggag ccagagctt gaaaggccgc 300
 gggtggcact tcgagaagga agtggagagt aaagacagcg cctggagcga tcgtagaaac 360
 acagaatggg actggggaag ccctttggaa atccagctgc agaaacagac accccaatgc 420
 tattacata cagctctata 440

<210> 213

<211> 489

<212> DNA

<213> Homo sapiens

<400> 213

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 tggaaattgt aattcact aagcttctg tgcagtctca ccattgcat cactgaggat 120
 gaaactgact ttgtcttt ggagaaaaa aactgtact ttgtcaaga gggctgtgat 180
 taaatcttt aagcattgt tctgccaag gtagtttct tgcatttgc tctccattca 240
 gcatgtgtgt ggggtggat gttataaac aagactaagt ctgacttcat aagggtttc 300

taaaaccatt tctgtccaag agaaaatgac ttttgcctt gatattaaa attcaatgag 360
 taaaacaaaa gctagtcaaa tgtgttagca gcatgcagaa caaaaacttt aaactttctc 420
 tctcactata cagtatatg tcaatgtgaa agtgtggaat ggaagaaatg tcgacacctgt 480
 tgtaactga 489

<210> 214

<211> 514

<212> DNA

<213> Homo sapiens

<400> 214

gagccatcgt gggaagactt tacaggacat acctgaagac ttctggaaa tggatcttgc 60
 aaaaaatgag cacagagttc acgtgcaaat ggagccggta tgacacactt tcttacaaca 120
 acagccactg tgttggctgg agagggatgg ggtggggcca acggggacac aaggaggcag 180
 aggagctaac ccctctactc cactttcaa actacattt aaagggaatg tgtatgtgaa 240
 gagcactacc aacatcgctt tgttttgtt ttgtttgtt ttaagctttt ttttttgc 300
 tgtttttaa gccaaaacaa aaaacaacca agcactcttc catatataaa tctggctgta 360
 ttcagtagca atacaagaga tatgtagaaa gactcttgg ttcacattcc gatattaaa 420
 tagtgacatg aactggcaaa gtggttttaa aagctttcac gtgggataaa tgattttctt 480
 tttttttt ctttctcct atggtcttgc ctga 514

<210> 215

<211> 543

<212> DNA

<213> Homo sapiens

<400> 215

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 tgggacagcc aggggggtgtg cccacggctg acccaggggt gtgcacacgg ctgagctggg 180
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 agtataaaaa caaaagtgt aatttaaaag tctgaataac catctgtctc ttaggaaact 360
 caatgaaatg acatgcctt ttagcaggaa gcaaagtgg tttctgttt ttgtttctt 420
 tgttgttta gttataaaa catgtgcatt ttacagtca gtatcaata ttataatct 480
 tatgagaaat gaatgaatgt ttctattac aactgtgctt atcaaaatg tgaacacccc 540
 cac 543

<210> 216

<211> 518

<212> DNA

<213> Homo sapiens

<400> 216

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 cattctgcac taccttgggg tagcctcaaa tggaaccaag gccagtgggg ctcccactag 120
 ttctctggga tctccaatag gtctctctac aaccacccct cccaataaac cccatcctt 180
 caacctgcac cccgccctc acttgcgtgg tagtatgcag ctgcagaaac ttaatagcca 240
 gtatcagggg atggctgctg cactccagg ccaaccggg gaggcaggac cctgcaaaa 300
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 gagccctgct atcatcgatt cggacccagt gcatgaggaa gtgctgatgt cgctggtggt 420
 ggaactgggg ttggaccgag ccaatgagct tccggagctg tggctggggc agaatgagtt 480
 tgacttact gcggacttct catctagctg ctaatgcc 518

<210> 217

<211> 480

<212> DNA

<213> Homo sapiens

<400> 217

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gcaccagatg caacctcact atggtatgct ggccagcacc ctctcctggg ggtggcaggc   60
acacagcagc cccccagcac taaggccgtg tctctgagga cgtcatcgga ggctgggccc   120
ctgggatggg accagggatg ggggatgggc cagggtttac ccagtgggac agaggagcaa   180
ggtttaaatt tgttattgtg tattatgttg ttcaaatgca ttttgggggt ttttaatttt   240
tgtgacagga aagccctccc ccttcccctt ctgtgtcaca gttcttggtg actgtcccac   300
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tttccgtgtg cgtcccaggc cctccctgac tccctgtggg ggtggccatc cctgggcccc   420
tccacgcctc ctggccagac gctgccgtg ccgtgcacc acggcgtttt ttacaacat   480
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<210> 218

<211> 472

<212> DNA

<213> Homo sapiens

<400> 218

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cacagctatc acatggatat ccttagttc ttacgcctct aaacctactc tgtattcaat   120
ttataatgcc aattttcgga gagggatgaa agagactttt tgcattgtct ctatgaaatg   180
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tggcatttca gaaatccctt ccatggccaa aactattacc aaagactcga tctatgactc   300
atttgacaga gaagccaagg aaaaaaagct tgcttggccc attactcaa atccacaaa   360
tactttgtc taagtctca ttcttcaat tgttatgcac cagagattaa aaagctttaa   420
ctataaaaac agaagctatt tacatatttg ttttactca actttccaag gg           472
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<210> 219

<211> 309

<212> DNA

<213> Homo sapiens

<400> 219

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gtccgcccag aagccataga cgagacgtag gtagccgtag ttggacggac gggcagggcc   60
ggcggggcag cccctccgc gccccggcc gtccccctc atcgccccgc gccaccccc   120
atcgccccctg cccccggcgg cggcctcgcg tgcgaggggg ctcccttcac ctcggtgcct   180
cagttcccc agctgtaaga cagggacggg gcggcccagt ggctgagagg agccggctgt   240
ggagccccgc ccgccccca cctcttaggt ggccccgcgc cgaggaggat cgttttctaa   300
gtcaatac                                     309
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<210> 220

<211> 560

<212> DNA

<213> Homo sapiens

<400> 220

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ctgtgcagca gctgaccgac agcactcaaa ttaaatgga cattttggcg caagttttac   60
agattttatt aaagtcgaag ctattggtct tggaagatga aaatgcaaat gttgatgagg   120
tggaattgaa gccagatacc ttaataaaat tatatcttgg ttataaaaat aagaaattaa   180
gggttaacat caatgtgcca atgaaaaccg aacagaagca ggaacaagaa accacacaca   240
```

```

aaaacatcga ggaagaccgc aaactactga ttcaggcggc catcgtgaga atcatgaaga  300
tgaggaaagt tctgaaacac cagcagttac ttggcgaggt cctcactcag ctgtcctcca  360
ggttcaaacc tcgagtcctt gtgatcaaga aatgcattga cattctaatt gagaagaat  420
atttggagcg agtggatggg gaaaaggaca cctacagtta cttggcttaa cccttctgga  480
agggtctgac tgtgtgaccc gcagcaaata gttcatgttg gaaagaatga aaacaacttc  540
aagttcatag gcagccagcc                                     560

```

<210> 221

<211> 280

<212> DNA

<213> Homo sapiens

<400> 221

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gtcagacggg cagaagtgcc gagtgtgtct ggcttggtg gcctggcaga accccacat  60
gctcttcctg gatgaaccca ccaatcacct ggatcagag accatcgacg ccctggcaga  120
tgccatcaat gattttgagg gtggtatgat gctggtcagc catgacttca gactcattca  180
gcagggttga caggaaattt gggctgtgta gaagcagaca atcaccaagt ggcttggtgaga  240
catcctggct tacaaggagc acctcaagtc caagctggtg                                     280

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<210> 222

<211> 524

<212> DNA

<213> Homo sapiens

<400> 222

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tgcacagaag ttacgctat cccactgag tctcgcaaa gaaaattttg cagagtcctc  60
caaaccaaca gctggtggca gcagatcaca aaaggtcaaa gttgctcagc ggagcccagt  120
agattcagcg accatcctcc gagaaccac cacgaaatcc gtcccagtcataaatcttcc  180
tgagagaagt ccgactgaca gcccagaga gggcctgagg gtcaagcgag gccgacttgt  240
ccccagcccc aaagctggac tggagtccaa gggcagtgag aactgtaagg tccagtgaag  300
gcactttgtg tgtcagtacc cctgggaggt gccagtcatt gaatagataa ggctgtgcct  360
acaggacttc tcttagtca gggcatgctt tattagttag gagaaaacaa ttccttagaa  420
gtcttaaata tattgtactc ttatagatc ccatgtgtag gtattgaaaa agtttgaag  480
cactgatcac ctgtagcat tgccattcct ctactgcaat gtaa                                     524

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<210> 223

<211> 550

<212> DNA

<213> Homo sapiens

<400> 223

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tctcgggacg catgacctc acgagcaata agtccatgga gatcgaggtg ttggtggacg  60
ccgaccctgt tgtggacagc tctcagaagc gctaccgggc cgccagtgcc ttcttcacct  120
acgtgtcgt gagccaggaa ggcaggtcgc tgcctgtgcc ccagctgggt cccgagaccg  180
aggacgagaa gaagcgctt gaggaaggca aaggcggtga cctgcagatg aaggcgacga  240
tcaggggcac gcggacgctc agccctagac tccctctcc tgccactggt gcctcgagta  300
gccatggcaa cgggcccagt gtccagtcac ttagaagttc ccccttggc caaaaacca  360
attcacattg agagctgggt ttgtctgaag ttctgtatc acagtgttaa cctgtactct  420
ctcctgcaaa cctacacacc aaagctttat ttatcatt ccagtatcaa tgctacacag  480
tgttgcctcg agcgccggga ggcgttgggc agaaaccctc gggaatgctt ccgagcacgc  540
tgtaggttat                                     550

```

<210> 224

<211> 233

<212> DNA

<213> Homo sapiens

<400> 224

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gatgaatgtt ttgcacttta ttggaagac aacaagttt accgggcaga agttgaagcc 60
ctccattctt cgggtatgac agcagttgtt aaattcattg actacggaaa ctatgaagag 120
gtgctactga gcaatatcaa gccattcaa acagaggcat gggaggaaga aggcacctac 180
gatcaaaactc tggagttccg taggggaggt gatggccagc caagacgatc cac 233
```

<210> 225

<211> 419

<212> DNA

<213> Homo sapiens

<400> 225

```
ctgctgccac ataaggtctt tgaaggaaat cgcccaacca actctattgt gttcaccaag 60
ctcacaccat tcatgcttgg agccttggc gccatgtatg agcacaagat ctctgtcag 120
ggcatcatct gggacatcaa cagctttgac cagtggggag tggagctggg aaagcagctg 180
gctaagaaaa tagagcctga gcttgatggc agtgctcaag tgaccttca cgacgttct 240
accaatgggc tcatcaactt catcaagcag cagcgcgagg ccagagtcca ataaactcgt 300
gctcatctgc agcctcctct gtgactcccc ttctcttct cgtccctct ccccgagcc 360
ggcactgcat gttcctggac accaccaga gcacctctg gttgtgggct tggaccag 419
```

<210> 226

<211> 265

<212> DNA

<213> Homo sapiens

<400> 226

```
atggcaaaaa tctccagccc tacagagact gagcgggtgca ttgagtcctt gattgctgtt 60
ttccagaagt atgctggaaa ggatgggtac aaccgcaatc tctccaagac ggagttccta 120
agcttcatga atacagact ggctgccttt acaaagaacc agaaggaccc cgggtctctt 180
gaccacatga agaaactgga tgcagcagt gatgggcagt tagatttccc aaaatttctt 240
aatctgattg gtggcctagc tgtgg 265
```

<210> 227

<211> 467

<212> DNA

<213> Homo sapiens

<400> 227

```
gggaccggga ttcatctgg tgtgatagac acctctctac tatataacga gtacattgtc 60
tatgatattg ctcaggtaaa tctgaagtat ctgctgaaac tgaaattcaa tttaagacc 120
tccctgtggt aattgggaga ggtagccgag tcacaccggg tggctgtggt atgaattcac 180
ccgaagcgtc tctgcacaa ctcacctggc cgctaagttg ctgatgggta gtacctgtac 240
taaaccacct cagaaaggat ttacagaaa cgtgttaaag gttttctca acttctcaag 300
tccctgtttt tgtgtgtgt ctgtggggag ggggtgtttt ggggtgtttt ttgtttttc 360
ttgccaggta gataaaactg acatagagaa aaggctggag agagattctg ttgcatagac 420
tagtctatg gaaaaacca aagcttcgtt agaattgtct cctact 467
```

<210> 228

<211> 277

<212> DNA

<213> Homo sapiens

<400> 228

```
aagaggggcc tgatgagact cactcaggt gcacacatca ccagggtgcat ctgcaggcac   60
cgggctggct gcttcagacc aggagaaggt cagcgagaag gagggtatga gtgtgagtg   120
gtgtgcatgg aagtgggggc actgggctgc tgactccctc cccaccaag agaggaagga   180
cccctacca cccctactgg cgagacagtt tactttgccg acttgccatg ttttgccaa   240
aaccaagatt tgaaggaaa tgagtggcca gcgccag                               277
```

<210> 229

<211> 506

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (198)..(198)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (201)..(201)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (429)..(429)

<223> n is a, c, g, or t

<220>

<221> miscfeature

<222> (439)..(439)

<223> n is a, c, g, or t

<400> 229

```
gactggcct ggtacaagat cactgactct gaggacaagg ccctcatgaa cggctccgag   60
agcagggttc tegttagttc ctgcaggggc cggtcagagc tacacattga gaacctgaac   120
atggaggccg acccgggcca gtaccgggtgc aacggcacca gctccaaggg ctccgaccag   180
gccatcatca cgtccgncg ntgcgcagcc acctggccgc cctctggccc ttctgggca   240
tcgtggctga ggtgctggtg ctggtcacca tcatttcat ctacgagaag cgccggaagc   300
ccgaggacgt cctggatgat gacgacgccg gctctgcacc cctgaagagc agcgggcagc   360
accagaatga caaaggcaag aacgtccgcc agaggaactc ttctgaggc aggtggcccg   420
aggacgctnc cctgctcng cgtctgcgcc gccgcccggag tccactccca gtgcttcaa   480
gattccaagt tctcacctct taaaga                               506
```

<210> 230

<211> 536

<212> DNA

<213> Homo sapiens

<400> 230

```
cctgtgcct ggcatgtagc caagaggcgg ataagtgcc cacttagaa cagtatgcca   60
tgagagcgtt tgccgacgca ctggagggtc tccccatggc cctcttgaa aacagtggca   120
tgaatcccat ccagactatg accgaagtcc gagccagaca ggtgaaggag atgaaccctg   180
ctcttggcat cgactgtttg cacaagggga caaatgatat gaagcaacag catgtcatag   240
aaaccttgat tggcaaaaag caacagatat ctcttgcaac acaaatggtt agaattgatt   300
```

tgaagattga tgacattcgt aagcctggag aatctgaaga atgaagacat tgagaaaact 360
atgtagcaag atccactct gtgattaagt aaatggatgt ctcgtgatgc gtctacagtt 420
atttattgtt acatccttt ccagacactg tagatgctat aataaaaata gctgtttggt 480
aaccatagtt tcacttggtc aaagccgtgt aatcgtgggg gtactatctc aactgc 536

<210> 231

<211> 389

<212> DNA

<213> Homo sapiens

<400> 231

ccatcgccac agaagcggta ccaggacacc ccgggcgtgg agcacattcc cgtggtgcag 60
attgacctct ccgtccctt gaaggttcca gggctgccta tgcagatca gtatgtgaag 120
ctggaggagg agcggcggca ccggcagaag ctggagaagg acaagaggag gaaaaagagg 180
aaggagaagg agaagaagg caagcgccgc cacagctgc tgcccacgga gagcgacgag 240
gacatgccc ctgccagca ggtggacatc gtcacagagg agatgcctga gaatgctctg 300
cccagcgacg aggatgaca agacccaac gaccctaca gggctctgga tattgacctg 360
gataagccct tagccgacag cgagaaact 389

<210> 232

<211> 525

<212> DNA

<213> Homo sapiens

<400> 232

ctttcacca ctgtggagac cctggagaag gaaaaccctt ggtactgcc ttctgcaag 60
cagcaccagc tggcaacaa gaagctggac ctgtggatgc tgccggagat tctcatc 120
cacctgaaac gcttttcta caccaagtc tcccagaga agctggacac cctcgtggag 180
tttctatcc gggacctgga cttctctgag ttgtcatcc agccacagaa tgagtgaat 240
ccggagctgt acaaatatga cctcatcgc gtttcaacc attatgggg catgcgtgat 300
ggacactaca caacatttgc ctgcaacaag gacagcggcc agtggcacta cttgatgac 360
aacagcgtct cccctgtcaa tgagaatcag atcgagtcca aggcagccta tgcctcttc 420
taccaacgcc aggacgtggc gcgacgcctg ctgtccccgg ccggctcatc tggcgcccca 480
gcctccctg cctgcagctc cccaccagc tctgagtca tggat 525

<210> 233

<211> 501

<212> DNA

<213> Homo sapiens

<400> 233

gaagggggcc ttttagcta gaagctttct attctgatcc ccaaggagt ccatatccag 60
aagcaaaaat aggccgctt gtatgtcaga atgtttctgc acagaaagat ggagaaaaat 120
ctagagtaaa agtcaaagtg cgagtcaaca cccatggcat ttaccatc tctacggcat 180
ctatggtgga gaaagtccta actgaggaga atgaaatgct ttctgaagct gacatggagt 240
gtctgaatca gagaccacca gaaaaccag aactgataa aaatgtccag caagacaaca 300
gtgaagctgg aacacagccc caggtacaaa ctgatgtca acaaacctca cagtctccc 360
cttcacctga acttacctca gaagaaaaca aaatcccaga tctgacaaa gcaaatgaaa 420
aaaaagttga ccagcctcca gaagctaaaa agcccaaat aaagtggtg aatgttgagc 480
tgcctattga agccaactg g 501

<210> 234

<211> 432

<212> DNA

<213> Homo sapiens

<400> 234

```

tgctgggctg ggtcgcgtag ccaggggtgg aggcagaacg atgctgctgt ggtagccctt   60
tgcctttcat gcccatgctt gattcttgca cctcagcagc tgaaggtctc agagaccagt   120
aatcagaagg catccgactg cattaagtgt gcagcgctga aaagacattt acaactaggc   180
cagggttagg cactgtggg aggggtggaca ggcaatggtt cagtggcctg gctgttgga   240
ggaactcaa gtgccaggc ctctgggca gcttagggcc ctgcctctgt tcatgatgc   300
atgggtcatt tgtctgggt gtcctatccc atatggagaa gaaaggggct ctaagttctg   360
gctcttttt ctttggggt ctctgtacct gaggaacca ggccctgggt gactttgcag   420
atctgtcac cc                                     432

```

<210> 235

<211> 454

<212> DNA

<213> Homo sapiens

<400> 235

```

tgtagaaggt gacgctctgg gggcaggact cctccaaaat tatgtggacc gtacggagtc   60
gagaagcaca gagcctgagt tgatacaagt gaagagttag ctgccctgg atccgctgcc   120
agtcccact gaggaaggaa acccctcct caaacactat cgggggccc caggggatgc   180
cacggtgcc tctgagaagg aatcagtcatt gtaaaccctg ggagggacct tccctgccct   240
gctgggggtg ctcttggac actggattat gaggaatgga taaatggatg agctagggt   300
ctgggggtct gcctgcacac tctggggagc caggggcccc agcaccctcc aggacaggag   360
atctgggatg cctgggtgct ggagtacatg tgttcacaag ggttactcct caaaaccccc   420
agttctcact catgtccca actcaaggct agaa                                     454

```

<210> 236

<211> 475

<212> DNA

<213> Homo sapiens

<400> 236

```

gcaagaccga gagcacctgt ggaagttgat cgaaggcggg gccacatct acgtctgtgg   60
ggatgcacgg aacatggcca gggatgtgca gaacaccttc tacgacatcg tggctgagct   120
cggggccatg gagcagcgc aggcgggtga ctacatcaag aaactgatga ccaagggccg   180
ctactcctg gacgtgtgga gctaggggcc tgctgcccc accacccca cagactccgg   240
cctgtaatca gctctcctgg ctccctccc tagtctcctg ggtgtgttg gcttggcctt   300
ggcatgggcg caggcccagt gacaaagact cctctgggccc tggggtgcat cctcctcagc   360
ccccaggcca ggtgaggtcc accggcccct ggagcacag ccagggcct gcatgggggc   420
accgggctcc atgcctctgg agcctctggc cctcgggtgc tgcacagaag ggctc     475

```

<210> 237

<211> 531

<212> DNA

<213> Homo sapiens

<400> 237

```

ggtcaggctt ggctgcaaaa cactttattg atgtaggagc tgggtgcata gatgaagatt   60
atagaggaaa tgttgggtgt gtactgttta attttggcaa agaaaagttt gaagtcaaaa   120
aaggtgatcg aattgcacag ctcatctgcg aacggatttt ttatccagaa atagaagaag   180
ttcaagcctt ggtgacacc gaaaggggtt caggagggtt tgggtccact gaaagaatt   240
aaaatttatg ccaagaacag aaaacaagaa gtcatacctt tttctaaaa aaaaaaaaaa   300

```


aagtttttgc ttcaagtgtt ttggtgttt gcacttctgt aaacttacta gctttacctt 360
 ctaaaagtac tgcattttt acitttttt atgatcaagg aaaagatcat taaaaaaaaa 420
 cacaagaag tttttcttg ttttgatc aaaaagaaac ttgttttgc cgcaattgaa 480
 ggttgatgt aaatctgctt tttggtgacc tgatgtaaac agtgtcttct t 531

<210> 238

<211> 543

<212> DNA

<213> Homo sapiens

<400> 238

ggatcaggag aacgtacacc cggatgtgat gctggtacaa cccagagtag aatttattct 60
 gtccttcatt gaccacattg ctggagatga ggatcacaca gatggagtag tagcttgtgc 120
 tgctggacta ataggggact tatgtacagc atttggaag gatgtactga aattagtaga 180
 agctaggcca atgatccatg aattgttaac tgaaggcgag agatcgaaga ctaacaaagc 240
 aaaaaccctt gctacatggg caacaaaaga actgaggaaa ctgaagaacc aagcttgatc 300
 tgttaccatt gggatgataa cctgaggacc cccactggaa atctcccatc tttgaaaaa 360
 cctggaagtg aggagtgtgc acggatgctg aatgtttggg aatgagagga tgagtgagtg 420
 aggcttgaaa acacaccaca ttgaaaatcc tgccacagca gcagccgcag ccgccaacag 480
 cagcgtgtt agtgagctaa gtaagcactg acttcgtaga aaaccataac atcgcccatc 540
 ttg 543

<210> 239

<211> 460

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (173)..(174)

<223> n is a, c, g, or t

<400> 239

gaggaaagac gctctttagg tttgtttt tttttttt ttggtttt tttttgtt 60
 tttttttac tctagggaaa acactgacga atggtcagag ctctatcct gatcttttca 120
 tcaaggcgcc ttcttaata atatggttca actgtgaatg tagaagtggg gggnaggggg 180
 gagaaaaaga aaactctggc gtttagaggat ataaaaaat ataagtacaa ttgttacaaa 240
 taacgcagac ttcaaaaaca aaaaaatcac aacccaaaca aacccaaatt taaatgatca 300
 gaattggcag cacaagaaaa acgccccttc ctgacttga ttgtggcagt ctgaacgcc 360
 ccagaaaatt gtccaaaga gtttagaaaa ataatatata aataaaagta aacacataca 420
 cacaaaacag caaacttcag gtaactattt tggattgcaa 460

<210> 240

<211> 498

<212> DNA

<213> Homo sapiens

<400> 240

gttgaactca tgtttcagtt cgcgaacatt gactccctac gaaagtcact tcattctaac 60
 tagatgcgcc cacttccggt cattatttcg ttgcatgat gtattgctc ttacgtttt 120
 gttttattg agcacggagt agaattccag ggctgccttg acttctccc tgcagtctcc 180
 ctcccagtga ctttcttcc ctttcatatg aggatctgcc gttcatgttg ctttctctt 240
 tgcctcttg gacttgaggg cattgtgaaa agctttgctg tgatttaaaa atgccagcaa 300

ttttaatcta gcagtgtga agctgggaat ttttggcgc aatccatgta gcagtgacc 360
aggcttggga gccagaaaca agtgtgacct gggattttat ttaacacaac tgttgccaaa 420
gagttggctt tgtttattg gtttggcgg ggagaggagt ggtatttgat gctttctgtg 480
gacaatgtaa ccctaaac 498

<210> 241

<21 1> 378

<212> DNA

<213> Homo sapiens

<400> 241

ggtcaaggct aaagccggag caggctctgc caccctctcc atggcgtatg ccggcgcccg 60
ctttgtcttc tccctgtgg atgcaatgaa tggaaaggaa ggtgtgtgg aatgttcctt 120
cgtaagtca caggaaacgg aatgtacctt cttctccaca ccgtctgtgc ttgggaaaaa 180
gggcatcgag aagaacctgg gcatcgcaa agtctctctt ttgaggaga agatgatctc 240
ggatgccatc ccgagctga aggcctccat caagaagggg gaagatttcg tgaagaccct 300
gaagtgagcc gctgtgacgg gtggccagtt tccttaattt atgaaggcat catgtcactg 360
caaagccgtt gcagataa 378

<210> 242

<21 1> 428

<212> DNA

<213> Homo sapiens

<400> 242

tgtgtagcgt aggcctttcc caagggtcgc tagaaactcg tcttcgcgtt gcccccttc 60
tggtctcag cgccgtgcc actcgggaga ggctgggtga ggcccggtg aggactgacc 120
ctggattcct cgaaactgcc attgtgatca ttactctgct ctttgaaat ggctgtatca 180
ttttttgta ctaatgtgaa ttgttctca gaaacgcttc tttccatcc tagtgagaag 240
ctggccctgc aggtgggtgg agcaatggtg ttgtaagatt tctcccga gtttttctc 300
ctcatggatt tgaatgaaat gccataaca cgtccacttt caacgtgtag ttacgcgga 360
gcactttcga ggctggccg ggttgggcct actctcacc tgggcctatc ttctgaactc 420
gctaggtt 428

<210> 243

<21 1> 534

<212> DNA

<213> Homo sapiens

<400> 243

gaagataacc ggctcattca cttcctccca gaagacgcgt ggtagcgagt aggcacaggc 60
gtgcacctgc tcccgaatta ctcaccgaga cacacgggct gagcagacgg cccctgtgat 120
ggagacaaag agctcttctg accatctctt tcttaacacc cgctggcatc tccttcgcg 180
cctccctccc taacctactg acccaccttt tgattttagc gcacctgtga ttgataggcc 240
ttccaaagag tcccacgtg gcatcacct ccccgaggac ggagatgagg agtagtcagc 300
gtgatgccaa aacgcgtctt cftaatccaa ttctaattct gaatgttcg tgtgggctta 360
ataccatgct tattaatata tagcctcgat gatgagagag ttacaaagaa caaaactcca 420
gacacaaacc tccaaatttt tcagcagaag cactctgcgt cgctgagctg aggtcggctc 480
tgcgatccat acgtggccgc acccacacag cacgtgctgt gacgatggct gaac 534

<210> 244

<21 1> 532

<212> DNA

<213> Homo sapiens

<400> 244

```
cagaaagtct cagcccagga tggggcttct tcaacagggc ccctgccctc ctgaagcctc   60
agtccttcac ctggccaggt gccgtttctc ttccgtgaag gccactgcc aggtcccag   120
tgcgccccct agtggccata gcctgggtaa agttcccag tgccctcttg tgcatagacc   180
ttcttctccc accccttct gccctgggt ccccggccat ccagcggggc tgccagagaa   240
ccccagacct gcccttacag tagttagcgc cccctccct cttcggctg gtgtagaata   300
gccagtagtg tagtgcggtg tgcttttac tgatggcggg tgggcagcgg gcggcgggct   360
ccgcgcagcc gtctgtctt gatctgcccg cggcgggccc gtgtgtgtt tgtgtgtgt   420
ccacgcgcta aggcgacccc ctccccgta ctgacttctc ctataagcgc ttctcttcgc   480
atagtcacgt agctcccacc ccacctctt cctgtgtctc acgcaagttt ta           532
```

<210> 245

<211> 477

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (363)..(363)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (418)..(418)

<223> n is a, c, g, or t

<400> 245

```
tgcccatcgt caacctcaag gacgagctgc tgtttcccag ctgggaggct ctgttctcag   60
gctctgaggg tccgtgaag cccggggcac gcactttctc cttgacggc aaggacgtcc   120
tgaggcacc cactggccc cagaagagcg tgtggcatgg ctcgacccc aacgggcgca   180
ggctgaccga gagctactgt gagacgtggc ggacggaggc tccctcggcc acgggccagg   240
cctctcgt gctggggggc aggctcctgg ggcagagtgc cgcgagctgc catcacgcct   300
acatcgtgct ctgcattgag aacagettca tgactgcctc caagtagcca ccgcctggat   360
gcngatggcc ggagaggacc ggcggctcgg aggaagcccc caccgtgggc agggagcngc   420
cggccagccc ctggccccag gacctggctg ccatacttct ctgtatagtt cacgttt   477
```

<210> 246

<211> 445

<212> DNA

<213> Homo sapiens

<400> 246

```
gtcactaacc tgtctcagtg tggccttgc cagccttgtg tttctgtaa cccctgtttg   60
tggtagaga taatagatcc tattttctc tcacataata tgcatttgct ctctaggac   120
agtgtataac atttatgtga agtaaagaca tgcgagactg gtggcctgca aatagcatcc   180
gtcaatctgt gttaactgca tagggagggc tctgcatagc acctgctata gcggtgtcat   240
gttgatcgc tttgtgact gttcatctgt ccttgacagt ggctgtcatc ttgactactt   300
tgttgatttg ttgtattgg gcacattta aaggctgagt tattttgaa tgtcatgttt   360
atgtcataga cgtagtttc gcatccttga attaaactgc cttaactcct tttgtggtat   420
aagcaaaact ccatggactc tgttc           445
```

<210> 247

<21> 182

<212> DNA

<213> Homo sapiens

<400> 247

```
tctgcagcct acgcatgaat aggttggcag gtgtgggctg gcgggtggac tacaccctga 60
gctccagcct gctgcaatcc gtggaagagc ccatggtgca cctgcggctg gaggtggcag 120
ctgccccagg gacccagcc cagcctgttg ccatgtccct ctacgcagac aagttccagg 180
tc                                     182
```

<210> 248

<211> 403

<212> DNA

<213> Homo sapiens

<400> 248

```
ttattctct aattaacagc tctaggaaa atgtagactt ttgctttatg atattctatc 60
tgtagtatga ggcatggaat agtttgtat cggaatttc tcagagctga gtaaaatgaa 120
ggaaaagcat gttatgtgt ttaaggaaa atgtgcacac atatacatgt aggagtgtt 180
atctttctct tacaatctgt tttagacatc ttgctttatg aaacctgtac atatgtgtgt 240
gtgggtatgt gtttattcc agtgagggtc gcaggcttcc tagagggtgt ctataccatg 300
cgtctgtcgt tgtgctttt tctgtttta gaccaatttt ttacagtctt ttgtaagca 360
ttgtcgtatc tggtagtgga ttaacatata gcctttgtt tct 403
```

<210> 249

<211> 487

<212> DNA

<213> Homo sapiens

<400> 249

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gccgtctcaa agtttcttag ctgactttgg cttcacatt tgttcttcc agagctaact 60
gataagagtg gaggaggaat gccttctcct aagagtcagt tgaagaaaag acaagagagt 120
cacatcttag ctttgcaca aggcattcgt ggtcaggaat aggttaggga atggtcactt 180
ctgattttcc aacagttgct ccttctctga agagatcttg attcctttgg gaagacaaga 240
attttctta ataacaagg tccctttatg agttattcct tcttctagtt catctcactg 300
gagcacagcc aagatggaca tgtttatgga cagtgtctta gatgtgaaa cagatagaac 360
tggtttgtgg gacaggggca gcttctcag gagagggaat aacgcaggtc cctttcttg 420
gaaggcttgt actatggcca tgacagtgc attgccctca ccatgatccc tctccaaagt 480
ggttgto 487
```

<210> 250

<211> 471

<212> DNA

<213> Homo sapiens

<400> 250

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tttgctatca gctcttctgc tatgaagtag taaaaggcag tctataatta actgacagac 60
ctaactgaag cacagagaat acatcagact tatgatcca agacatcaga acttggattt 120
tatcaaaact gatgacttct ctaaaaggag ctttggaaac ttcaaattca gctataggat 180
agtaccaatg aacacatcca gctgatccca aaagctgttt tcaggtataa ggacaaggag 240
aggagacaag tgacgacagc cattccccct tgcagctatc tactgtagt acagccattt 300
cttggttgat gggttggaag tcatcagagg ttggaagaat tacactggcc ttgtttttc 360
tggaatgcc gaccatggag atgctttaga gtcttctcaa atagcttaga tgttgtaatg 420
aggtagctt tgctcataa aacaggggcc ctcaagatt ctcttaaat t 471
```

<210> 251

<211> 529

<212> DNA

<213> Homo sapiens

<400> 251

```
cctctacctg gggtcgggtc aggagctcca tctgggaact aacagctgct aacctgacca 60
gccgctcagg acaggaccct ggggctacac tctgcattg ctgcaatact gctccccag 120
cctctccctt gccctcaac ctgccttagc tgcactctct tacctacagc tggacagtac 180
ctgtctgttt cctgtctcc ttccagttac atctgtccat gtctggactc ggctggccgt 240
tcctccagc cccttctgg ttatcttact ctgagtgtga tgcagtcaga ggcacctgcg 300
ggttagccca ggggcccaag ccctggattt ggctgcgga ggagcttagg atcctcggtt 360
tctgggtttt ggtgatgttg gaggagtacc cccagccca ccgccccgat tccttttgc 420
ttctggttg gagctccgga ccaggacctt cgtctgtgtc agtttttaa taattatta 480
gcagtgtaac tttaaacct gcgtgacatc taaaagcgc ccaataaag 529
```

<210> 252

<211> 419

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (160)..(160)

<223> n is a, c, g, or t

<400> 252

```
gggtcattgt ttaagatctg gctgggtgta cctagcctgc tggaactggc atgggagaag 60
ctgcttgcgg ccttcctaa ccttgcaaac ctctccgaa cacaactct gcaccttgga 120
ctcacacagg gactcatcga acgcttgaaa tgaggatttn tggactgttc attgatactg 180
gaaatgttaa ttaaagaga ctctttatt tatgggcagt gtagaatgtg ctacaaagag 240
gattggttac cctgatcaag gccttattta gaaaatacat cagatgcctt tctgtaaatt 300
ggttttcag tttatggaca tctcacttcc ccacgtgctt ccttcttgc ttctgttct 360
cctgacctat tacatgcaca tgtactcaca tactccctct tccttctcga tggagttaa 419
```

<210> 253

<211> 358

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (134)..(135)

<223> n is a, c, g, or t

<400> 253

```
ttgcttttcc tctaacttgg caagagctat ggctcttcta tttccaatc acacagcttg 60
gcatgtagga aagggtgaat gatcctctaa gactgtgttg gtcttcgtat tctgtaaaac 120
ccatttttt tttnngtggc ctacagatg tttagaaagt ggcacaggtt actgaattgt 180
ctacctgccca gcattctgat atagcacaaa aagctatttt cctttatttt ttgtattatt 240
ttttatttt ctggcattga gctctagggg ggaatgagggt ttatggctct ctgatcataa 300
gctccattct aaaaactggg cactgttagc tgaaattgct ttggttcccc aaatgcct 358
```

<210> 254

<211> 516

<212> DNA

<213> Homo sapiens

<400> 254

```

ggcctttccc ttctaaggctc attagattca gccaaaagcg acctcttctc tagtccggtg   60
ttacgaacag aagtcttgag ttgtgtaca aaagtagttc catcttttg gtgtaatttt   120
cacgttttta atttgaaaaa aaaaaaaaaa acaactttt ataagtttt taagggcct   180
gcttagtcag tgtacagggt ggagtcagag gcagttttca gaaaaaaaaac aaaaaacaaa   240
aaacaatttc accaagcggg agtaattgtt gttttactag ttatacattt agaataataa   300
ggaggcatca gaaacacac tctctaaagc cacttccttg tgcacagagt ctgcacaggg   360
agagcacagg catctccctg gaaaagcacc tgccaatgac gaatttcag gaagaaccta   420
ggcaagaaag gaagcctctt tctgagacac agtctctgag aggtgagcct agctttgctc   480
ttctacagg gtatgcttg gccatacaca atgctc                               516

```

<210> 255

<211> 514

<212> DNA

<213> Homo sapiens

<400> 255

```

gaccagtctc tcggagagca cctgttgag tctgatctt tcccgacgtc tacttcctg   60
agtccctctc acctcggcc accctcctc ctgcgggcac ccagctggtt tgacactgga   120
ctctcagaga tgcgcctgga gaaggacagg ttctctgtca acctggatgt gaagcacttc   180
tccccagagg aactcaaatg taagggtgtt ggagatgtga ttgaggtgca tggaaaacat   240
gaagagcgcc aggatgaaca tggtttcac tccagggagt tccacaggaa ataccggatc   300
ccagctgatg tagaccctc caccattact tcacccctgt catctgatgg ggtcctcact   360
gtgaatggac caaggaaaca ggtctctggc cctgagcgca ccattcccat caccctgtaa   420
aagaagcctg ctgtcaccgc agccccaag aaaaagatgc ctttcttga attgcattt   480
ttaaacaag aaagtftccc caccagtga tgaa                               514

```

<210> 256

<211> 500

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (267)..(267)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (409)..(409)

<223> n is a, c, g, or t

<400> 256

```

tcggacactg gccttgggaa caatgttga gagaacactt gccccttgac tgtaggagcc   60
agaaggggac ccagtggtgc atagctctct gtagacattt ttacccaaac ctgttggtaa   120
agtgtccatc tgggtctcaa gagagcctgg gggcttaaca gggagcccg ctgcctcacc   180
tggccacagc ctccacacca gatctccaca ttgtcttgat ccagaccagc tctgtgatca   240
gaaggaaatt ggggtccagt taggagngag ctggtcctgg gcctggcagg caagagtgtg   300

```

ggcacccttt cctggccttt ctccactctc cctcaagcct gtgtcaggt tgccttgaat 360
gtggactctg gaagagccag gggcccagaa tgccggggga ggcttctgng tggcactcat 420
ggaacaccgt ccctctgcca gccataggcc ctgcctccag tgtcaggga tggaggctgg 480
gctgcgagag tgttgcctgc 500

<210> 257

<211> 500

<212> DNA

<213> Homo sapiens

<400> 257

atgcaccgt ttccagaagc tgcgttgcca acgtcacatc ccaaaatagt gttgacatcc 60
ctgcctgcgc tggcggtccc acccccact cccaccaaag cggcacctcc cgcgtaggtc 120
aatgggctgg agctgtcaga gccgcggagc tggctgtacc tagaagagat ggtcaactcc 180
ttgctcaaca cagcgcagca gctgaagacg ctgtttgagc aagccaagca tgcagcacc 240
taccgagaag ctgccacaaa ccaggccaag atccacgctg acgcagagcg gaaggagcag 300
tctgcgtta actgcggccg ggaggctatg agcgagtga cgggttgcca caaggtaac 360
tactgtcca acttctgcca acgcaaggac tgggaagatc accagcacat atgcggccag 420
tcagcagctg tcaccgtcca ggcagacgaa gtccacgtgg ctgaaagcgt gatggagaag 480
gtgaccgtgt gaggtccat 500

<210> 258

<211> 516

<212> DNA

<213> Homo sapiens

<400> 258

agatgcctgt ttgctatttg gtggaagata gatgttcata ttgaagcagt cacatttga 60
ctgtagtcca ataaaagaaa aatgaagtat tctgtagcct atattttca tagagctcat 120
gagcatttac tgtacttgcg gggctctgcc aagatcattt attccgctgc attgccaaag 180
tgtcttcata ccaaaataaa ggtggtttta atatatgttt catggaagtt gttataaaa 240
ttcaaaggta ttctatttag gtgaaaagtc ttatttatta aagtggttg aataaagtag 300
atcaaaactt ccagagatct taatggctat ataggaagaa atatcactca ccataattta 360
aataaagaat aaaaatacat gtattttatg gtggcaaatg ttggtagaa ctgtaattag 420
aaaaatacaa gtatatattgc gtgatgttta cactagaagc ccagacttta cgactacaca 480
atatattcat gtatctaaac tgtacttga cccct 516

<210> 259

<211> 375

<212> DNA

<213> Homo sapiens

<400> 259

ttttaccttg gatgctgact tctaaatgaa ctgaagatgt gcccttactt ggctgatttt 60
tttttccat ctcataagaa aaatcagctg aagtgttacc aactagccac accatgaatt 120
gtccgtaatg ttattaaca gcatctttaa aactgtgtag ctacctcaca accagtcctg 180
tctgtttata gtgctggtag tatcaccttt tgccagaagg cctggctggc tgtgacttac 240
catagcagtg acaatggcag tcttggttt aaagtgaggg gtgaccttt agtgagctta 300
gcacagcggg attaaacagt cctttaacca gcacagccag ttaaagatg cagcctcact 360
gcttcaacgc agatt 375

<210> 260

<211> 427

<212> DNA

<213> Homo sapiens

<400> 260

```
gtacgagacc tgttcagat gaagctttt gtggatacag atgcggacac ccggctctca   60
cgcagagtat taagggacat cagcgagaga ggcagggatc ttgagcagat tttatctcag  120
tacattacgt tctcaagcc tgcctttgag gaattctgct tgccaacaaa gaagtatgct  180
gatgtgatca tccctagagg tgcagataat ctggtggcca tcaacctcat cgtgcagcac  240
atccaggaca tctgaatgg agggccctcc aaacggcaga ccaatggctg tctcaacggc  300
tacacccctt cagcgaagag gcaggcatcg gagtccagca gcaggccgca ttgaccgctc  360
tccatcgac cccagcccct atctccaaga gacagaggag gggtcaggag gcactgctca  420
tctgtac                                     427
```

<210> 261

<211> 463

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (435)..(435)

<223> n is a, c, g, or t

<400> 261

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gaagatgtcg gcagggctgg gcttcagcct ggaaggaggg aagggtccc tacacggaga   60
caagcctctc accattaaca ggatttcaa aggagcagcc tcagaacaaa gtgagacagt  120
ccagcctgga gatgaatct tgcagctggg tggcactgcc atgcagggcc tcacacggtt  180
tgaagcctgg aacatcatca aggcaactgc tgatggacct gtcacgattg tcatcaggag  240
aaaaagcctc cagtccaagg aaaccacagc tgctggagac tcctaggcag gacatgctga  300
agccaaagcc aataacacac agctaacaca cagctcccat aaccgctgat tctcagggtc  360
tctgtgccc cccacccag atgggggaaa gcacaggtgg gcttcccagt ggctgctgcc  420
caggccaga ccttntagga cgccaccag caaaaggttg ttc                               463
```

<210> 262

<211> 531

<212> DNA

<213> Homo sapiens

<400> 262

```
ttggaatggg cagctcatct ctgtccact tggcatcagc tggcgtcatg caaagtcattg   60
caaaggctgg gaccacctga gatcattcac tcatacatct ggccgttgat gttggctggg  120
aactcacctg gggctgctgg cctgaatgct tataggtggc ctctccttgt ggctgggct  180
cctcacaaca tgggtgtctgg attcccagga tgagcatccc aggatcgcaa gagccacgta  240
gaagctgcat ctgttttata cctttgcctt ggaagtgtga tggcatcacc tccaccatac  300
tccatcagtt agagctgaca caaacctgcc tgggtttaag gggagaggaa atattgctgg  360
ggtcatttat gaaaaataca gttgtcaca tgaaacattt gcaaaattgt ttttggttgg  420
attggagaag taatcctagg gaagggtggg ggagccagta aatagaggag tacaggtgaa  480
gcaccaagct caaagcgtgg acaggtgtgc cgacagaagg aaccagcgtg t           531
```

<210> 263

<211> 528

<212> DNA

<213> Homo sapiens

<400> 263

gtatcgatat gggtcctttt ccgtcacctt ggacattgtc cagggtattg aaagtgccga 60
gatcctgcag gctgtgccgt ccgggtgaggg ggatgcattt gagctgactg tgcctgcca 120
aggcgggctg cccaaggaag cctgcatgga gatctcatcg ccagggtgcc agccccctgc 180
ccagcggctg tgccagcctg tgctaccag cccagcctgc cagctgggtc tgcaccagat 240
actgaagggt ggctcgggga catactgcct caatgtgtct ctggctgata ccaacagcct 300
ggcagtgtgc agcaccagc ttatcatgcc tggtaagaa gcagggggcc ttgggcaggt 360
tccgtgatc gtgggcatct tgctggtgt gatggctgtg gtccttgcac ctctgatata 420
taggcgcaga ctatgaagc aagacttctc cgtacccag ttgccacata gcagcagtc 480
ctggtgtcgt ctaccccgca tcttctgctc ttgtccatt ggtgagaa 528

<210> 264

<211> 529

<212> DNA

<213> Homo sapiens

<400> 264

gaatggtgca tacaaggcca tccccgttgc ccaggacctg aacgcgcctt ctgattggga 60
cagccgtggg aaggacagtt atgaacgag tcagctggat gaccagagtg ctgaaaccca 120
cagccacaag cagtccagat tatataagcg gaaagctaat gatgagagca atgagcattc 180
cgatgtgatt gatagtcagg aactttccaa agtcagccgt gaattccaca gccatgaatt 240
tcacagccat gaagatatgc tgggtgtaga ccccaaaagt aaggaagaag ataacacct 300
gaaatttctg atttctcatg aattagatag tgcattctct gaggtcaatt aaaaggagaa 360
aaaatacaat ttctcattt gcatttagtc aaaagaaaa atgctttata gcaaatgaa 420
agagaacatg aaatgcttct ttctcagttt attggttgaa tgtgtatcta ttgagtctg 480
gaaataactg atgtgttga taattagttt agttgtggc tcatggaa 529

<210> 265

<211> 372

<212> DNA

<213> Homo sapiens

<400> 265

cctgcggagg tgggcggcat gcagctccgc ttgcccggc tctccagca cggcacggcc 60
cccaccggg gctccgcgcg cgccgcgggc tacgacctgt acagtgccta tgattacaca 120
ataccaccta tggagaaagc tgttgtgaaa acggacattc agatagcgt ccttctggg 180
tgttatggaa gagtggctcc acggtcaggc ttggctgcaa aacactttat tgattagga 240
gctggtgtca tagatgaaga ttatagagga aatgttggtg ttgtactgtt taatttggc 300
aaagaaaagt ttgaagtcaa aaaaggtgat cgaattgcac agctcattg cgaacggatt 360
tttatccag aa 372

<210> 266

<211> 409

<212> DNA

<213> Homo sapiens

<400> 266

agtcaagtga ccagcctctg actgtgcctg tatctccaa attctccact cgattccact 60
gctaaactca gctgtgagct gcggataccg cccggcaatg ggacctgtc ttaacctcaa 120
acctaggacc gtcttcttt gtcatgggc atggagagaa cccatttctc cagactttta 180
cctacccgtg cctgagaaag catacttgac aactgtggac tccagttttg ttgagaattg 240
tttcttaca ttactaaggc taataatgag atgtaactca tgaatgtctc gattagactc 300
catgtagtta ctctcttaa accatcagcc ggcctttat atgggtcttc actctgacta 360

gaatttagtc tctgtgtcag cacagtgtaa tctctattgc tattgcccc 409

<210> 267

<211> 523

<212> DNA

<213> Homo sapiens

<400> 267

ggtatcttca taaaatcggg gcaactgagaa tgcagctgga cccatgtgaa gataacctcac 60
tccagcccac ttctaggaa caatggaaga agaaaggact gaaccagggt atttttgtta 120
ggttttctat gtgactccaa gaggggaatgg tcaagttgtt tcatgagttt gcatgggccc 180
ttggaaaaac aggaaggag caatgaagat ccaagcaaaa ctttacttc agcgttggct 240
tggaggacaa ataagaaatg aaacatccta tgaaatactt tatagcacat ggcagatttg 300
caactagtaa aatgctggtg aaatgctgtt ggtaaagcac atgggtccaa tctagaagat 360
gcagttaaaa aacaagacag actcgagttg ttagggctga ggaaccaatc aaggtagaac 420
aaagaaaatg ttggggtaaa agtgttgctg attgtcaaca caaactggct taataatatt 480
aataagaacc tgtcttatta agactggctt tagaaccgta ggt 523

<210> 268

<211> 161

<212> DNA

<213> Homo sapiens

<400> 268

gtgatgccca tatgatcagg acagcttttc cactttactc ggtttctac aagcaagtag 60
gaaatacagt gaatttacc taaatgtcc aatctgtatt tatgtacctt gtcagtgttt 120
tgcgtgtggt ttctaaaac aatctgatca ataatctta t 161

<210> 269

<211> 445

<212> DNA

<213> Homo sapiens

<400> 269

caacaagacg gacctggctg ataagaggca gataaccatc gaggaggggg agcagcgcgc 60
caaagaactg agcgtcatgt tcaatgagac cagtgcgaag actggctaca acgtgaagca 120
gctttttcga cgtgtggcgt cggctctacc cggaatggag aatgtccagg agaaaagcaa 180
agaaggggatg attgacatca agctggacaa accccaggag ccccgccca gcgaggcgcg 240
ctgctctgc taatgcagag ccgacctgtg gcttcccatg acactccttg ctgttgtgt 300
tgcttctat tggctagctt cctaaggggg gagggaaacc agttatcaag atgggaggat 360
ttttctttc tctctgtctt taggagtagg gtgggatggg gagggaggct gggcatcagg 420
gatcacatca ctctaacgg ctgtt 445

<210> 270

<211> 503

<212> DNA

<213> Homo sapiens

<400> 270

gacattgcct gtatgatcgg gtaccgacct tgcccctgga tgaaatgggt ctggtccttc 60
ttaccccgc tggctgcat gggcatctc atctcaacg ttgtgtacta cgagccgctg 120
gtctacaaca acacctacgt gtaccgtgg tggggtgagg ccatgggctg ggccttcgcc 180
ctgtcctcca tgctgtgcgt gccgtgcac ctctgggct gcctcctcag ggcaagggc 240
accatggctg agcgttgga gcacctgacc cagcccatct ggggcctcca ccactggag 300

taccgagctc aggacgcaga tgtcaggggc ctgaccaccc tgaccccagt gtccgagagc 360
agcaaggctc tcgtgggtgga gagtgtcatg tgacaactca gtcacatca ccagctcacc 420
tctggtagcc atagcagccc ctgcttcagc cccaccgcac cctccaggg ggctgcctt 480
tcctgacac tttgggggtc tgc 503

<210> 271

<21 1> 508

<212> DNA

<213> Homo sapiens

<400> 271

tcaactccat agtgaagtct gatgtggaca tccgcaaaga cctgtacacc aacacagtgc 60
tgtctggcgg caccaccatg taccctggca tcgccacag gatgcagaag gagatcactg 120
ccctggcgcc tagcattatg aagatcaaga tcattgctcc tccaagcgc aagtactccg 180
tgtgggtcgg tggtccatc ctggcctgc tgtccacctt ccagcagatg tggatcagca 240
agcaggagta tgatgagtca ggccctcca tgtccaccg caaatgcttc taggtggact 300
ctgacttagt tgcgttacac ctttctga caaaacaaa ctctcagaa aacaacatga 360
gattggcgtg gctttattg tttctgtt tcatttttg tttgtttt tattggcttg 420
actcaggatt tgaaaaccgg aacggcgaag gtgatagtag tcggttgag cgagctccc 480
ccaaagtct acaatgtggc caaggact 508

<210> 272

<21 1> 502

<212> DNA

<213> Homo sapiens

<400> 272

tcactgtcag tcgacactc catgtccagg tttcccatc atatgattcc cgtctctct 60
ggtccccaca caactggcat cctcatcca gctattgtaa cacctcaggt caaacaggaa 120
catccccaca ctgacagtga cctaatgcac gtgtgctctg cttttctct ccccatccc 180
ttctcattc cttaacccc ttccctaac caccaccacc accacctttt aggaagcctc 240
agcatgaaca gagaaaggag caggagccaa aaagacctca cattaagaag cctctgaatg 300
cttttatgtt atacatgaaa gaaatgagag cgaatgtcgt tgcagagtgt actctaaaag 360
aaagtgcagc tatcaaccag attcttgga gaagggtgca tgcctctcc cgtgaagagc 420
aggctaaata ttatgaatta gcacggaaag aaagacagct acatatgcag cttatccag 480
gctggtctgc aagagacaat ta 502

<210> 273

<21 1> 552

<212> DNA

<213> Homo sapiens

<400> 273

aagccagcta cagatgcatg catattgtga aaaccagat atagtgtgt gtggaacaa 60
gagtgtctg gaggaccaga gagtagtgaa agagaaatat ggaatcccct acttgaaac 120
tagtgctgcc aatgggacaa acataagcca agcaattgag atgcttctgg acctgataat 180
gaagcgaatg gaacgggtgtg tggacaagtc ctggattcct gaaggagtgg tgcgatcaaa 240
tggtcatgcc tctacggatc agttaagtga agaaaaggag aaaggggcat gtggctgttg 300
agaagtcaag taagcgacat agtagttcag gtggcccatg cctgggatct tctctatgat 360
tgatacatgg cacagtgaga gattaatggg cattgtgtac aaattgcttc tcaccatccc 420
cattagacct acgaataaag catccgggtc taaaattaat ttgtgcagc ttgtaaata 480
ttctttaag attcagcctg agagtttaga gaaatattc agagccaaaa gtgccttata 540
caaccttagc ct 552

<210> 274

<211> 417

<212> DNA

<213> Homo sapiens

<400> 274

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ggagccccgt cataggaagt gaggtcttcc tgcccaacag caaccacgtg gccagtggcg    60
ccgggggaggc agaggaacgc gttgtggtga tcagcagctc ggaagactca gatgccgaaa    120
actcgtcctc ccgagagctg gatgacagca gcagtgagtc cagtgcacac cagctggaag    180
gccccagcac cctcaggggtc ctggacgaga accttgctga cccccaagca gaagacagac    240
ctctggtttt ctttgacctc aagattgaca atgaaagtgg gttctctcgg ggctaccccc    300
acccctttct aatttagtct ctgagtccca aaaagaagtg caggcagagc catctgccag    360
gcccaggaga gctctgagct ctggccaaca actgcagcca ggctgggcag agcactc    417
```

<210> 275

<211> 510

<212> DNA

<213> Homo sapiens

<400> 275

```
gttctgcggg atggtgcagt tccccggcga cgtgaggagg caggccctcc tgcagtgtg    60
tctgtcctc tgccaccgtt tcccgctgat ccggaagacc acggccagcc aggtgtacga    120
gacattgtc acctacagtg acgtcgtggg cgcggatgtg ctggacgagg tggtagtctg    180
gctcagtgc actcgtggg acgcggagct tgcagtgtg agagagcagc gcaaccgtct    240
gtgtgacctt ctgggcgtac ccaggccca gctggtgccc cagcctggtg cctgtgaag    300
ccagtcttg agccatacc tcacctgc ctggtgagga tgtctgttc ctgagggagg    360
ccggtgtgga aagcctcgca cagtgtgtcc tccagctgtt gaagggtagc gctggccctt    420
ggaggctggc actagctgac agcttttct ctctgcacct gcgctctgt gacttggggt    480
ggacgcctct gccttcactt gaacacaaat                    510
```

<210> 276

<211> 551

<212> DNA

<213> Homo sapiens

<400> 276

```
ggatggggct tctcaacag ggccctgcc ctctgaagc ctacgtcctt caccttgcca    60
ggtgccgttt ctctccgtg aaggccactg ccaggtccc cagtgcgccc ctagtggcc    120
atagcctggt taaagtccc cagtgcctcc ttgtcatag accttctct cccacccct    180
tctgccctg ggtccccggc catccagcgg ggctgccaga gaacccaga cctgccctta    240
cagtagtgta gcgccccctc cctcttcgg ctggtgtaga atagccagta gttagtgcg    300
gtgtgcttt acgtgatggc ggtgggcag cgggcggcgg gctccgcgca gccgtctgtc    360
cttgatctgc ccggcgggc ccgtgtgtg tttgtgctg tgtccacgcg ctaaggcgac    420
cccccccc gtagtgactt ctctataag cgcttctct cgcatagtca ctagctccc    480
acccaccctt ctctgtgt ctcacgcaag tttatactc taatatttat atggctttt    540
ttctcgaca a                    551
```

<210> 277

<211> 533

<212> DNA

<213> Homo sapiens

<400> 277

ccttgactgg ctaccaggg gagagctgg aggaagagga ggaaagtcaa gggggcgtga 60
 agcttggcct cggggacttc atcttctaca gtgtgctggt gggcaaggcg gctgccacgg 120
 gcagcgggga ctggaatacc acgctggcct gcttcgtggc catcctcatt ggcttgtgtc 180
 tgacctctct gctgcttct gtgttcaaga aggcgctgcc cgccctccc atcctcatca 240
 cgttcgggct catcttttac ttctccacgg acaggaagca cagcaggttt atccagatga 300
 actgagaagg tcagattagg gcggggagaa gagcatccgg catgagggtt gagatgcgca 360
 aagagtgtgc tcgggagtgg cccctggcac ctgggtgctc tggctggaga ggaaaaacca 420
 gtccctacg aggagtgttc ccaatgctt gtccatgatg tccttgttat ttattgcct 480
 ttgaaactg agtcctgttc ttgttacggc agtcacactg ctgggaagtg get 533

<210> 278

<21 1> 238

<212> DNA

<213> Homo sapiens

<400> 278

ctgggctcgg aggtgtacag gatgctgcgg gagccggccg agcccgtggc cgcggagccc 60
 aagcagttag gctcctccg ctacttgcag ggcatgctag aggcggcgga gggcggggca 120
 ccacgtcaa ggcacgggac aagctctacc atcccagtg ctcatgtgc agtgactgcg 180
 gcctgaacct caagcagcgt ggttacttct ttctggacga gcggctctac tgtgagag 238

<210> 279

<21 1> 491

<212> DNA

<213> Homo sapiens

<400> 279

gctcttctct gaagcgcagc aagctcggcc ggtacaacga ggaggagcgg gctcagcagg 60
 aggccgaggc cgcccagcgc ctggccgagg agaaggccca ggccagctcc atcccgtgg 120
 gcagccgctg tgaggtagcg gcggcgggac aatcccctcg ccggggcacc gtcatttatg 180
 taggtctcac agatttcaag cctggctact ggattggtgt ccgctatgat gagccactgg 240
 ggaaaaatga tggcagtgtg aatgggaaac gctacttca atgccaggcc aagtatggcg 300
 cctttgtcaa gccagcagtc gtgacgggtg gggacttccc ggaggaggac tacgggttgg 360
 acgagatag acacctaagg aattcccctg ctacagctcc tagctcagcc actgactgcc 420
 cctcctgtgt gtgcccatgg ccctttctc ctgaccccat ttaatttta ttcattttt 480
 cctttgcat t 491

<210> 280

<21 1> 268

<212> DNA

<213> Homo sapiens

<400> 280

ageagatcat gaagacaggg gcccttttgc ttacggggat gattgccgcc gtggacacag 60
 actcccccg agaggcttt ttccgagtgg cagctgacat gtttctgac ggcaacttca 120
 actggggccg ggtgtcgcc ctttctact ttgccagcaa actggtgctc aaggccctgt 180
 gcaccaaggt gccggaactg atcagaacca tcattggctg gacattggac ttctccggg 240
 agcggctgtt gggttgatc caagacca 268

<210> 281

<21 1> 261

<212> DNA

<213> Homo sapiens

<400> 281

gctctatttc caggcatgtg atgcccccg ctctccagat tccccagcac tctgctgcgt 60
gtaactccac tcaatttcc actcctcctt cctgtgaag caggatcggt gaagttttaa 120
gtatgggcaa aaatctggaa aacttaggat ccctctgaca cccagggatt aggggacaca 180
gcagtggcta gggcatcagc cacagaactg agcgggaaat gccacttgta ttggctgtaa 240
agaaatcctg gctttgggcc a 261

<210> 282

<211> 372

<212> DNA

<213> Homo sapiens

v

<220>

<221> misc_feature

<222> (43)..(43)

<223> n is a, c, g, or t

<400> 282

tccaaggact gagactgacc tcctctggtg aactggcct agngcctgac actctcctaa 60
gaggttctct ccaagcccc aaatagctcc aggcgccctc ggccgcccac catggttaat 120
tctgtccaac aaacacacac gggtagattg ctggGctgtt gtaggtggtg gggacacaga 180
tgaccgacct ggtcactcct ctgccaaca ttcagtctgg tatgtgaggc gtgcgtgaag 240
caagaactcc tggagctaca gggacaggga gccatcattc ctgcctggga atcctggaag 300
acttctgca ggagtcagcg tcaatcttg acctgaaga tgggaaggat gttctttta 360
cgtaccaatt ct 372

<210> 283

<211> 398

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (335)..(336)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (338)..(338)

<223> n is a, c, g, or t

<400> 283

tccccgctag cttggggcga gcagagctgc atccagtgga actaaagccg ttccaggatt 60
atcaaaaact gagcagcaac cttgggggac ctggatcatc acggactccc ccaactggaa 120
ggtccttctc tggcctcaat tccgtctca aggccacgcc ttccacctac agtggagtct 180
tcgcaccca ggcgctgac cttaccagc aggcctcccc accagatgcc ctgcgctgga 240
tacctaagcc ttgggagcgg acagggccgc cacctcgaga agggccctcc cgacgggcag 300
aggagcctgg gtcccagagg gacaaggagc ctggnntngc cccaccccg ctgagggagt 360
tcctcttgcc ccctaccccc ggggcttgta tatagatt 398

<210> 284

<211> 478

<212> DNA

<213> Homo sapiens

<400> 284

```
tgtagattta gtttgacgct ccccaaagt catgagacac atgctaaaat tacaaattaa   60
aattttgggt cagactttgc cataatgata gactcaattt agctctctga actagttgggt  120
aatttttttt tttaattcc cactttggct gtgtacatca aatgaaatga gaagtgtgta   180
tgctgaccaa accacaagaa actttcttta agttgtgtta aagaggaaag acctagaatc  240
caagcgtggt acatgaaaat tgtaacagag cagctgcttc caccttcag atatagatgt  300
tggaaccaca gcagaagtta tagagcgaca actatatac acacctagaa tgtaagttaa   360
acaaaatacc ggcttcaga gaccctttt ctccagccat attacatcag gctagaagta   420
attaatgttg atttattca tctacaagca gttgttcctt aagtgaaagg ctctgctt   478
```

<210> 285

<211> 336

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (299)..(299)

<223> n is a, c, g, or t

<400> 285

```
gtctgcctct ccaggattgt atgtttcaag ccttgcctg tgttctttg tctgacgctc   60
tgtgtattgc tctttgaatc gagtttgag gaagagtga gttgtatgag tggcggcatg  120
ttggtagtgc cggacttctt gtttcaagtt ttctggggcc tcgctaattg aatgtggaaa  180
gtagcaccac ttgacggcta caagtgccga ctctgaattt ttccatggt gttctgactt  240
caagggtcgg cagccagga gaatgggccc aggggaagca aagacctctt cctctgcng  300
ttctgtccc acttaactga cctcactgga ggctac                               336
```

<210> 286

<211> 262

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (47)..(47)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (81)..(81)

<223> n is a, c, g, or t

<400> 286

```
tcttgacatc ctacttctt ctaagggggg agggaaagg gggaganttt ttatatatat   60
atacatatat atatatcaag ntttaaatta ttgatagttc atctggatta ccaaaatcac  120
tctgcagccc tgcccagggc tagtaggctg caaccctggt cccaccctt aacctctgc  180
tccccctcaa gccaactatg cagcccacaa gaaggccctg cgggcccccc cattgccag  240
cactgtctca tagaaggctc tg                               262
```

<210> 287

<211> 388

<212> DNA
 <213> Homo sapiens

<220>

<221> misc_feature
 <222> (70)..(70)
 <223> n is a, c, g, or t
 <220>

<221> misc_feature
 <222> (72)..(78)
 <223> n is a, c, g, or t
 <220>

<221> misc_feature
 <222> (80)..(80)
 <223> n is a, c, g, or t
 <220>

<221> misc_feature
 <222> (82)..(82)
 <223> n is a, c, g, or t
 <400> 287

```
ttcccttg ttctttatc atagagacct gcctatttat tcttggcgc catctggagt   60
actactgtg aririnnnnan gnccacggat tctcaagatt ccttatttgc ctcgagaacc  120
ttgttataaa gcagaagact gcaagattcc ttcgcctcag aaaccaatct agattttaga  180
agtgggctgg ctatagttag ccaacatgat ttagaccagc ttcaggctga tgcaatcaac  240
gcttttgag aatcactaca aaagaaactt ctggacattg aaggattata ttcaaaagt  300
cgatctcat atagtttcat acaggctctt gtcagacgta tccgtggcct ctgaggata  360
tcaaggaact gagagcccgt gcttatgc                               388
```

<210> 288
 <211> 438
 <212> DNA
 <213> Homo sapiens

<220>

<221> misc_feature
 <222> (300)..(300)
 <223> n is a, c, g, or t
 <220>

<221> misc_feature
 <222> (303)..(303)
 <223> n is a, c, g, or t
 <400> 288

```
gagctcactg tgggatgggg ttgacctctg ccgcctgcct gggtatctgg gcctggccat   60
ggctgtgttc ttcatgtgtt gattttattt gaccttgga gtggtgggtc tcacttttc   120
catctgcct gagagcggct gagggctgcc tcttgcaaa tctccccac agcgtcagt   180
aaagtcttc ttgtctcaga atgaccaggg gccagccagt gtctgacaa ggtcaagggg   240
caggtgcaga ggtggcaggg atggctcga agccagaaat gccttaaact gcaacgtcn   300
gtncctccc caccctcatc ccatccccc cccagcccc agcccagtc tctaggagc   360
aggaccgat gaagcgggcg gcggtggggc tgggtgccgt gttactaact ctagtatgtt  420
tctgtgtcaa tcgctgtg                               438
```


<210> 289
<211> 509
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (440)..(440)
<223> n is a, c, g, or t
<220>
<221> misc_feature
<222> (448)..(448)
<223> n is a, c, g, or t
<400> 289
gtcttcccta cctcaggcag gaagggcagg aaggagagcc tgctgcatgg ggtgggtag 60
ggctgactag aagggccagt cctgcctggc caggcagatc tgtgccccat gcctgtccag 120
cctgggcagc caggctgccaggccagagt ggcctggcca ggagctcttc aggcctccct 180
ctctctctcg ctccaccctt ggctgtctc atccccaggg gtcccagcca ccccgggctc 240
tctgtgtac atatttgaga ctagtttta ttcttgtga agatgatata ctattttgt 300
taagcgtgtc tgtatttatg tgtgaggagc tgctggcttg cagtgcgcgt gcacgtggag 360
agctggtgcc cggagattgg acggcctgat gctccctccc ctgccctggt ccagggaagc 420
tggccgaggg tcctggctcn ctgagggnca tctgccctc cccaacccc caccacac 480
ttgtccagc tcttgaaat agtctgtg 509

<210> 290
<211> 442
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (286)..(286)
<223> n is a, c, g, or t
<400> 290
ttagcaacac tcatagttt gccattacc agtagacact agtggaacca tctaactgga 60
acttctctc tcctccact tatttctca aactgttgc ttactactag acacatgcaa 120
atgtatgttt taaacacacc aaaacagatc atgccaatg agttgcctgt caaaggctgg 180
agggcaggag gagggcctgg gttgggttc ttctctcca gcctttggat ggtgccttgg 240
gccccttagc ccagcgcca gggcctcca gctgaggcca cagganaagc actttttat 300
gatgtactaa aagccacagt atgtggcaac tgcaaaagga tcaggaattt agggatatg 360
ctcggtcacg tgtccgggc gctgagggga aaggaagcgg gcatgattgt agacaatgag 420
ggggttctct tgatgtaatg aa 442

<210> 291
<211> 467
<212> DNA
<213> Homo sapiens
<400> 291
gagacactag tttggccaa cttagattt tacgttaatt ttacatagt attgacact 60

catgcaaat aatgtgaaaa catctagatt tagtagttaa ttctgcgcct ttgttataaa 120
 ctgaagattt tggaaaatgg ttgtcactgc tcttcagacc tatgaatatt ttgtgaaat 180
 ggaacctatgg atttatgtct ggatcatcca tacagaacca acaattttat tcaaaaacaa 240
 tgtgttcac aaagtaattg ctcacattgt gcagtactat gttgtacaga ccacgtgaaa 300
 gggaatgctg gtctagctgg cgtgggtatgt ttataggcga atttcagcag aaggaagcca 360
 aaatagtttt ttccttttga aagttttta aaaattattt catgggtctt tttttaatt 420
 aatatgtgtg cattgttaca atgtatgtg gatgtctttt gacccta 467

<210> 292

<21 1> 356

<212> DNA

<213> Homo sapiens

<400> 292

ttagagccat catcatccca ggcagggata tctttgagaa atgactcagt tcagccccag 60
 gccccgtgta ctctgcttaa agcacacatt tctgtgact cttgtacctg gggcagcagg 120
 ataatacca acacactctt aacgagaaac aacacaccaa gcacagtga gctgtcctag 180
 gcaacactcg cggctcagg ctgcgggtgg cgtctgtcct gcatgtggcc cagaccaccc 240
 tgacccccgg gcctgcctgc ctggccctgc atgctgcacg ctactgtat ttgtgcagat 300
 cctggccagt acaaagtcgt tgctcttgc ttatcttctc ttacagagtc tcctc 356

<210> 293

<21 1> 203

<212> DNA

<213> Homo sapiens

<400> 293

gtctcctcc cttatagaa tgtaaccaa agagtgcct cctccctct cagcctctc 60
 ttagctagc ctccccatct catcacaacg catgtctgtg acctttgta atcatttaca 120
 gtgccacag gaacctgtta ttgtcacac agcaaaacaa acaatgttta gctttattta 180
 tggattttga tgctgtaaat gga 203

<210> 294

<21 1> 487

<212> DNA

<213> Homo sapiens

<400> 294

aagaaccagt gtcaatccgc agaccctctg tgaagccagg ccggccgggc cgagccagca 60
 gccccctccc ctagactcag aggcgccgcg gggaggggtg gccccgccga ggettcaggg 120
 gccccctccc cacaaagggt ttacctcac acttgaatgt acaaccacc ccaactgtcg 180
 gaaggcctcc gtctcggcc cctgcctctt gctgtgttcc tgtccccgag cccctgcagg 240
 tcccccccg cccccccact caagagttag agcaggtggc tgcaggcctt gggcccgag 300
 ggaaggccac tgccggccac ttggggcaga cacagacacc tcaaggatct gtcacggaag 360
 gcgtcctttt tcctttagc taacgttagg cctgagtagc tccccccat cctttagac 420
 gtccagtc ctactactgt gacggcattt ccatccctcc cctgccccgg aaggacatt 480
 gcaggga 487

<210> 295

<211> 528

<212> DNA

<213> Homo sapiens

<220>
 <221> miscfeature
 <222> (153)..(153)
 <223> n is a, c, g, or t
 <220>
 <221> misc_feature
 <222> (351)..(351)
 <223> n is a, c, g, or t
 <400> 295
 ctggccggggg atttgcgaac caaagcgacc attgagctca aggccctcag gctgctgaac 60
 ttccagaggc agctgcgcca ggaggtggtg gtgtgcatgc ggagggacac agcgctggag 120
 acagccctca atgctaaggc ctacaagcgc agnaagcgcc agtccttgcg cgaggcccgc 180
 atcactgaga agctggagaa gcagcagaag atcgagcagg agcgcaagcg ccggcagaag 240
 caccaggaat acctcaatag cattctccag catgccaagg atttcaagga ataccacaga 300
 tccgtcacag gcaaatcca gaagctgacc aaggcagtgg ccacgtacca ngccaacacg 360
 gagcggggagc agaagaaaga gaacgagcgg atcgagaagg agcgcatgcg gaggtcatg 420
 gctgaagatg aggaggggta ccgcaagctc atcgaccaga agaaggacaa gcgcctggcc 480
 tacctcttgc agcagacaga cgagtacgtg gctaacctca cgagagctg 528

<210> 296
 <211> 438
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (121)..(121)
 <223> n is a, c, g, or t
 <400> 296
 cagggcaact cccagggatg tggtagcatg cagggttcaa gtgttcttgg ttccaggcac 60
 ctcccggctc acggggagct cagaggtcca tgccgaggag accaggcagg acctcccag 120
 nctgcgcccc ggccggccca tgcgtttgt gatcccaagt gactctgtgg gaagggtggg 180
 gacgaggcgt cgggagggta tacagggagc cctcccgtg catggctgcc cccccgttca 240
 tttctccac cacagccgt tgcacgtata gatactgtgg tcccccttct ttaatatat 300
 aaattatgta tggtagaagt gtagtgattg ttaggtccc gtatttaatg cctctgactg 360
 cctttgaagc gcagccctct gtggcccga gcccctgag cctggctgtt gtgtggtatt 420
 tatgctctct ttgtctgc 438

<210> 297
 <211> 497
 <212> DNA
 <213> Homo sapiens
 <400> 297

aagctcccat ttgtaacca ctagtttgcg gttgacttga gtactctggt gacttctgc 60
 gtcaagcgtt ctcaagctgt gagaatgtgc gcagctccag gcaggttttc tctcgagag 120
 ttaagtcttc cttgaaggc aggaagcag gatggataca catatatcac acgcataaaa 180
 caccagggtgc gggagcagcc cagactcaag gctgactaaa ctggaggctg aataccgtgg 240
 aggtccacat gcagcttccc tggagggcag gccggaggcg ctcccggccc tgggcttgag 300
 gatgctgcac cccgtgggct tccaggcctg cccagatgat gccttcaggc ctctgtccct 360
 ggccggccatc ctcaggccga tttgaccag caatgataga ctcttcttaa cctttcaaa 420

ataaattttt cagtgggaca gaaaggagag ttaaaaaaca ttttttaaa ggtggaaca 480
tctgaccac aaaggga 497

<210> 298
<211> 557
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (73)..(73)
<223> n is a, c, g, or t
<220>
<221> misc_feature
<222> (244)..(244)
<223> n is a, c, g, or t
<400> 298
cctcatcgc tacatgagct ctgggcctgt ggtggccatg gtctgggaag ggtacaatgt 60
cgtccgcgc tcnagggcca tgattggaca caccgactcg gctgaggctg cccaggaac 120
cataaggggt gacttcagcg tccacatcag caggaatgtc atccagcca gcgactccgt 180
ggagggggcc cagcgggaga tccagctgtg gttccagagc agtgagctgg tgagctgggc 240
agangggggc cagcacgca gcatccacc agcctgaggc tcaagctgcc cttaccacc 300
catccccac gcaggaccaa ctacctcgt cagcaagaac ccaagccac atccaaacct 360
gcctgtcca aaccacttac ttcctgtc acctctgcc caccagcc cagaggagt 420
tgagccacca acttcagtgc cttctgtac ccaagccag cacaagattg gaccaatcct 480
tttgcacca aagtccgga caaccttgt ggtggggggg ggtctcaca ttatcataac 540
ctctctcta aaggga 557

<210> 299
<211> 449
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (60)..(61)
<223> n is a, c, g, or t
<400> 299
atagggttt ctgggcgag gatgtgctgg attaggaaag gtgacatgac acaggcagan 60
nagagtggca cccaccacag aatacagtgt gtgtattac gaggagccag cagttgagcc 120
taaggtcctt ctacctacct ggtattggca ttgaggtcg gaaacctct actgccccat 180
aagccaggaa aagtgaagaa agaacacagt tctttaaga actggcagca aggcttgagg 240
ccttatgtat gtgactgagt cagcaaggta catgatgctg tctgcttca aaaggacttt 300
tctctctag ctgactgact ccttccttag ttcaaggaac agctgagaca gacctctgct 360
gagtagctct gtgatgaaa agccttggt taactgaggt gatcctcagg ttgtgaggt 420
tattagccc caaggcaaac acaaatatt 449

<210> 300
<211> 311
<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (125)..(126)

<223> n is a, c, g, or t

<400> 300

```
atcaagtcca actgaaacat cagaacaaat aagagagaaa taagaataga atgaatgacc   60
ccaaaatagg gttttcttgg gcgaggatgt gctggattag gaaaggtgac atgacacagg   120
cagannagag tggcacccac cacagaatac agtgtgtgtt attacgagga gccagcagtt   180
gagcctaagg tccttctacc tacctggat tggcatttga ggtcggaaac cctctactgc   240
cccataagcc aggaaaagtg aaaagagAAC acagttcctt taagaactgg cagcaaggct   300
tgaggcctta t                                     311
```

<210> 301

<211> 395

<212> DNA

<213> Homo sapiens

<400> 301

```
gctctggtgc tagatgccac ttagaccaga tctcaacag tgccttgac catggactca   60
tactcaactg agtaagaagg ggctggtgcc cagtcggggg ggctgagctg gtccttaata   120
gggtgttct tggcttctt tcttcatgc cctccccact gctcctgcca ccttagata   180
agtttctcta gctaattttg tggccaatgt aaaattcgtc atcaacctaa caaacacaac   240
cttctcagca gcatttctc cctgtgatgg aaataaagt ttagggcag tgggaggaga   300
aaatttcca ggtgaatggg gaagggtctg ttccagctc tcctactcc catccattt   360
ccaccaactg gggaactgtg actatctatc tcccc                                     395
```

<210> 302

<211> 517

<212> DNA

<213> Homo sapiens

<400> 302

```
tatgttatgt gtgtgactcc ctgtgtgta tctgtgccag cctcagctc cgagttgctt   60
ttccctctgg ccctgactct cactgactca ccgatgtgat gtgcaggccc acttcttacc   120
ccagatagcc tcgggcgctg cctgtagtca tgctgacagc tgtacagtag ccgccaagac   180
tgctgacagc tggagacggt tctggttca actacggtat attgatatcg gaagtattct   240
agacagatcc tcggttgggt ttctagcta catgtttgta ttgcacagat cccacctgc   300
catcctatag tgtgtcttc ctgtgtgtc cggggcttct gggcagctgg gcctgcccg   360
ggaagtccct gcaggtggga ggccatacag agaccactg tgtgccactg agcgtccac   420
tgctgctggg caactggagg actgcagggg gcgccaggtg actctctct tttatatcac   480
agcagctcct gtgctgacct tcaagttacg ttttga                                     517
```

<210> 303

<211> 520

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (51)..(51)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (392)..(392)

<223> n is a, c, g, or t

<400> 303

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tgtagtgtg taaacctgcc tcacaaata catggttaata acttttctt naaaaaaaaa 60
aaaaaagaca gcctttacac catttctagt ggcacactat ttggcaatg ttatgcacca 120
cttcaatttc cccattgtga cccctatcac ttcattgat atccctttt gaccaccca 180
tctccttcat atatgggcat gtccatagat tgacaaagaa agtttacct ttgaataaa 240
gatgcaaagt atgcaaaaac attaatctg atgcgaaaaa ataaaaata aaagagaaac 300
aaggcagagg aagaagggtg ttaagctctc ctgcacctgt tggaatgggtg gttaacagaa 360
tgatttgaga tgggatctgt ggggagggga gnaaaaaaaaa aaacaacaaa atttggtgct 420
taaaaaaaaa taaaataaaa aaagacatct ttaaaatcaa tccctggttg tagacaagtt 480
ctccaaaacc agtacctggc accactcaa caaacaaacg 520
```

<210> 304

<211> 329

<212> DNA

<213> Homo sapiens

<400> 304

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gctggcttcg ttttccaag gagccttgg tgagttaaat tatctggtaa atatccagcg 60
cttcacctga aagatagtc aaattggta ggatgccacc tcaagaactg taactgagag 120
ctcagaagtg agcaaaggag cttaatgcta aggtcaaaag gagagtgaag gttgagaac 180
aattgccacg aacggtaatg ttacatgta ggagggtctg tttctttt atataagtg 240
gtcttagata tattttaaat agaaaataag cttctgatt tacttggttg gtatttaaag 300
cacagtttgt tttctgtca cctatagag 329
```

<210> 305

<211> 521

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (481)..(481)

<223> n is a, c, g, or t

<400> 305

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tacattttc cacgagctgg tgcagacagc tctgcatca ggcagctgtg tggacacctt 60
gttaaaggac ttgtgcaaaa tttacaccac acttacagcc ctgtcagat attatctcca 120
ggtgtgtcag agctccggag gaattccaaa aaatatggaa aagctggtga agctgtctgg 180
tttcatctg accccctgt gttattctt catttctac gtacagaata agagtaagag 240
cctgaactat acgggagaga aaaaggagaa acctgctgcc gttgccacag ccatggccag 300
agttcttcgg gaaaccaagc caatccctaa cctcatctt gccatagaac agtatgaaaa 360
atttctcgc cacctttcta agaagtccaa ggtgaacctg atgcagcaca tgaagctcag 420
cacctcacga gacttcaaga tcaaaggaaa catcctagac atggttctc gagaggatgg 480
ngaagatgaa aatgaagagg gcactgcac agagcatggg g 521
```

<210> 306

<211> 496

<212> DNA

<213> Homo sapiens

<400> 306

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ctttctgect gtactggatc tgttatttc agggaaacag gccccagggc cccctgagc   60
ctcacctaa gcccttaggc ctctgagagt gctgttgggt tctattatt tattatttg   120
ttcctttgtt ccttaccgt gccccagtg tctccctgc tgagtaccag gagaggctcct   180
gccccatcct ctctctgaag ccagggcct tccattccat ttagccttg gatcatcctg   240
gctggggagaa gtggggaccga gccacccagc cccactatcc ccaagcagcc ctacagccgg   300
gatgggagggc acgtggcctc tctttatcc gtctatttat ttgtaagtg tttcgtgtg   360
gaggaggttg ttgctttatt ttttaaggc tctggagtgt tgtgtatggt ttctttcac   420
atccagcct ccatgggca ctctaagaa gagaggggat ttcttgaaa aggagagagg   480
aatcccctag agcagg                                     496
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<210> 307

<211> 503

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (158)..(158)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (216)..(217)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (231)..(231)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (250)..(250)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (261)..(261)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (291)..(291)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (297)..(297)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (341)..(341)

<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (352)..(352)
<223> n is a, c, g, or t
<220>
<221> misc_feature
<222> (365)..(365)
<223> n is a, c, g, or t
<400> 307
gcgggccaca gacgtcggaa gaaactcccg tatttcgagc tggaactgca gcccacggcg 60
ccccggtttt cctccccgcc ctgtccctct ctggtcaaac aacatactaa agaggcgagg 120
caatgactgt tggccagttc tcaccgggga aaaaccnacc tgtaggatg gcatgaacat 180
ttccttagat cgtggtcagc tccgaggaat gtggcnacca ggctcttga ngagccatgg 240
gctgcacccn ggccgtaggc ntagtgtaac tcgcatccca tgcagtgcc ngttcnttg 300
actgtgttgc tgtctcttag attaacctg ctgaggctcc nacatagctc cntggacctg 360
tgtcntagta catactgaag cgatggtag agtgtgtaga gtgaagtgc tgtgccaca 420
ttgttgaac tcgcgtaccc cgtagataca ttgtgcaacg ttctctgtt attccctga 480
ggtgtaact tcgtatgttc agt 503

<210> 308
<211> 434
<212> DNA
<213> Homo sapiens
<400> 308
tgagagctgt ctaggctgt atcccagatt gttgcttaac gacatctgac agatgcattg 60
ttttctgaaa tcagcttaag acaccaattg tggcaactgg aaactcatta cctgctgcat 120
tggatcaact atggaagttg gagcaggggt gggcggagggt cacctaacca atcaatggaa 180
ggcaactcac acctgctcca agcctcagct ttgagaaaca aacacgttta taagaaaaaa 240
tatatagcta ttattacaga agtgaatatg ttgtgctctc ttactgctc tggtagcattg 300
acagtttctg tatctcaacc ctattcatct ttatgaaaaa gcattctgaa gatctatcct 360
cagcactgct gagtgtgcag tcacacttc ctaccaaccc cttcttacc atctctagct 420
gccatttgtg gggg 434

<210> 309
<211> 572
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (163)..(163)
<223> n is a, c, g, or t
<220>
<221> misc_feature
<222> (486)..(486)
<223> n is a, c, g, or t
<220>
<221> misc_feature
<222> (547)..(547)
<223> n is a, c, g, or t

<400> 309

aacaggcccc tatagggaag cagttccatg aaaatgatta attctttcca aaagacttaa 60
aatTTTTcc tatttcaatt ttcctttcaa aaaaggaaat acattcatgt agttcaaaac 120
ttaagaaaac aaaagtctgt tcagcaaaag actcccactc cgnTccccca aacgtgagc 180
cccaccccc atccctggta gcaagaagtg ttccaattt taaggtaag aaacaaagtc 240
cctggatttg tgtagggat gtctctga gagtgggttg gtTccgtt gaccctggcg 300
gttgacctg gcccaactagg atcatgccgc cctctccagg gaggagggcc tccccatcac 360
cctgtacagt ggcaccccag ccttggeact gcccgcctt gctcagcgta cctttccat 420
ggcactctga cgtactggat gtttggttc tgaagtact ggctgttac cctgccggga 480
tgtaancccc tccagggcag gggctgtct cgtgttcagt gctgcatccc agctgctggg 540
cacggtncct ggtccatggc gtcaataaa ta 572

<210> 310

<211> 549

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (73)..(73)

<223> n is a, c, g, or t

<400> 310

ttttgatgt gcgtgctgtc tgcctatgg agcctctgca gactcgttct cgtgaccag 60
tggcataccg ttnggtgtct gatgtgtgcc cagatcgttc tgccactgc actgtgcttg 120
ctcctaagca aaagggaaaa ggagcgcgcg tgatagaaga aaagcactgg gagaactaac 180
agaggagaaa ggtgaaacac acacacattc ttaaggcaat aaaactaggg ggtgtatatt 240
atcttctggt gcatgttctt tcttgaaaa tatgtagct cgccaaccgc atctgctcat 300
ctgatattca aacacacagt attcgtgaat aagttgattc tgtcccccac gtggactctg 360
tgctaccca ttgtctcatt gccagtggg tccaagggcc cccgttgga cccacggctc 420
tcgtccctct gctccgtgtg tctcatgcca gcagcacgtc gccatccgc accagaatta 480
gtcctcacag ctaggacca gttttgtatc aaactcgtct gatgtttga tgccatttgt 540
ctttgtaa 549

<210> 311

<211> 463

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (37)..(37)

<223> n is a, c, g, or t

<400> 311

gctacatgag ggtgtccctg tccagctttc tggcacntga gtctgtgtg gagagttacc 60
tcctcttcca gggactgtgc tgttggaac ttgggcaag tcacttacct ctttgtcct 120
caatttctgt ataattttc taagctacct cactgagggtg gtatgaagat tcactaatgt 180
atgtagcgtg ttgtcaatc ctccagtga aagcactatc tagatcacat ttggatcac 240
attagccaaa tgcagtaaat ggccaaatta gatgtgtgct gaagacaatc agtcactggg 300
tctatattaa acagcaacca gagcaacaaa tggcaacaa ttctatttt caagttctt 360
tgcattttt ttggtgcaa aaccatttat aaacttttt tttaacact agtgtctaca 420

gcagcattca aaaaaattct gttacctttt ctgtattagg att 463

<210> 312

<211> 238

<212> DNA

<213> Homo sapiens

<400> 312

tgggatctca gatcctttgt cactgcctat agactttag ctgctgtctc tctttgtccc 60
tgcagagaat cacgtcctgg aactgcatgt tcttgcgact ctggggactt catcttaact 120
tctcgtgcc ccagccatgt ttcaaccat ggcacccctc cccaattag ttccctgtca 180
tctcgtcaa ccttctctgt aagtgcctgg taagcttgcc ctgcttaag aactcaaa 238

<210> 313

<211> 497

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (26)..(26)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (61)..(61)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (64)..(64)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (68)..(68)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (117)..(117)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (148)..(148)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (173)..(173)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (214)..(214)

<223> n is a, c, g, or t

<220>

<221> misc_feature
 <222> (218)..(218)
 <223> n is a, c, g, or t
 <220>

<221> misc_feature
 <222> (231)..(231)
 <223> n is a, c, g, or t
 <220>

<221> misc_feature
 <222> (275)..(275)
 <223> n is a, c, g, or t
 <220>

<221> misc_feature
 <222> (293)..(293)
 <223> n is a, c, g, or t
 <220>

<221> misc_feature
 <222> (305)..(305)
 <223> n is a, c, g, or t
 <220>

<221> misc_feature
 <222> (318)..(318)
 <223> n is a, c, g, or t
 <220>

<221> misc_feature
 <222> (323)..(323)
 <223> n is a, c, g, or t
 <220>

<221> misc_feature
 <222> (435)..(435)
 <223> n is a, c, g, or t
 <400> 313

gcagtgagcc aagacagtgc cagtgnactc cagcctcggt gacagcgcaa ggctccgtct 60
 naanaatnaa aaaaaaaaaa aaaaaaaaaa ggccggggcgc agtggctcaa gcctgtngtc 120
 ccagcacttt gggaggctga ggccgggnga tcacctgagg tcaggagttt tngatcagc 180
 cttggcaaca cggtgaaacc ccatctctac taanaatnca aaattagcca ngcatgctgg 240
 cacatgctg taatcccagc tactcgggag gctgnggtac gagaatcgct tgnacctggg 300
 aggcnagga tgcagtngc cgngatcacg ccattgcact ccagcctggg ggacaagagt 360
 gaatctgtgt ctcacaaaaa aaaaaaagaa aaagaaagat gcttaacaaa ggttaccata 420
 agccacaaat tcatnaccac ttatccttc agtttcaagt agaatatatt cataacctca 480
 ataaagtct cctgct 497

<210> 314
 <211> 563
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (431)..(431)

<223> n is a, c, g, or t

<400> 314

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gcagcagatc atgagtgacc cagccatgcg ccttatcctg gaacagatgc agaaggaccc 60
ccaggcactc agcgaacact taaagaatcc tgtaatagca cagaagatcc agaagctgat 120
ggatgtgggt ctgattgcaa ttcggtgatg acttggtcat ccccccttc cttcgccctc 180
atgtggaaag aggagctggg accgcggcga gcagcacgga gcggaaggga gagcagggga 240
gagaaggcct catctctcta tatttataca taaccccgga gaagacacag agactcgtac 300
ctgcgctgtt tgtgccgccg ctgcctctgg gccctccag cacacgcatg gtctcttcac 360
cgctgccctc gagtccatg tctcttccc ctgccctag ttgctgtctc ggctgctctc 420
ccatagttgg nttttttt tatttggggc agtgggcatg ttatggggag gggagggggg 480
tcttcagcc tcaggccca gctgtctcac gttgtttatt ctgcgtcccc ttctccaata 540
aaacaagcca gttgggcgtg gtt 563
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<210> 315

<211> 524

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (29)..(29)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (39)..(39)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (41)..(41)

<223> n is a, c, g, or t

<220>

<221> miscjfeature

<222> (45)..(45)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (47)..(47)

<223> n is a, c, g, or t

<220>

<221> misc__feature

<222> (55)..(55)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (187)..(187)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (373)..(373)

<223> n is a, c, g, or t

<400> 315

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aacagcacct ttctcattga gcttcctcna ctgacctcng ncccncttg ggatntcatc   60
ttctgaccga accctgatgt tcagtggcag agacagccca tagccagaac tgtgggtaga   120
ccagggttgg ggtgtgcggt ttgggacagc ccaaacccca gccgctgtgt caaggcctag   180
gacgcentgc tgccatcaaa aggggggttc aggtttccat cagtggccta aagaaggac   240
ttctgttgt actgaggagt gcggaattaa agagatttga ctcccttag tattgggggc   300
agtccgttcc ccagacactg tggcctctga agtggaact gaaagctgca tacctgggaa   360
agaactttct agnaataggc aatggccttc agtggaagag ggagggctgg aggtgtgccc   420
agtacttga tgttcatctg tccacaacag cttttgttt ttttaaaaaa gctaaaatgg   480
aatggattt tatcataaag gatgacatcg ttttctcta caat                       524
```

<210> 316

<211> 559

<212> DNA

<213> Homo sapiens

<400> 316

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ggtgtgcttc gtgctgtagt tatcgttagt tcctcttccc gagatggggc cgccgagaga   60
ccccagcgc ttgaaaagc aaggtttgtg ctgcgcttcc agttccgaaa agcagatgtt   120
taagcccttg gactgagggt gggatcgagc ctccgaagac ggagaggagg gaaatggggc   180
ccttccct ctattgatc cccctgccg actcctccc cgcaccacg tgccctagat   240
tcattggcaga aaatgaccaa atcctgtgta ttgttttat atatttaata actgttttaa   300
atgaaagtt tagtaaaaaa aatacaaac aaaaagatta aattgctatt gctgtagtaa   360
gagaagctct ttgtatctga acatagtgt attgaaatt tgtggtttt taattattt   420
aaaattgggg ggagggcatg ggaaggattt aacaccgata tattgttacc gctgaaaatg   480
aactttatga acctttcca agttgatcta tccagtgcg tggcctggtg ggcgtttct   540
ctgtactta tgtgtttt                       559
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<210> 317

<211> 504

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (44)..(44)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (63)..(63)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (94)..(94)

<223> n is a, c, g, or t

<400> 317

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tgctctcagg agtattcttc tacaccagct gctgttaaaa tgncaatga actctagtcc   60
canggaatac agaagtgtc ttattaccag tttnccact tgtggccgcc ttgcaaaga   120
tccatattct aatttaagtc cccaacctct gaatttggtt ttaagttac ctagtactg   180
actactctct ttataaaaaa gaccttatac ttaatgatca ttccaaagg agaccactcc   240
ttaactttta ctgcaaacc aacaagatga gaccttaaa ccagacaga tgtaacaaag   300
```

gatttttgtt gtctaagtcc caaagtatta tatagaaagt tcttgctttt atgggtaaac 360
ttattacctt aatatgttct gtggtttgct gtaaccaag attctcccat ttaaaatgcc 420
acagaccgac cctcaaggca gatccgaaag cctagtagtt agttgcactg ggttggtttg 480
acaagctacc acacgtctta agta 504

<210> 318

<211> 568

<212> DNA

<213> Homo sapiens

<400> 318

acaggcgggtg tgagcatcca tgtgtggtct tggcttaaac cagctcttga acagggtaaa 60
gcaaacagca ataacaaaac aaaaactact gatgctgagc gtttgatcc tagtaatatt 120
tcaaatattg tcttctgca tatgttctat ccatattga ttccaatata cattattaag 180
cttcttggg tactattttg ctggggctct tgcgtgaagg tggtaacctgt ctcattgatcc 240
ttaaagaga gaggcctttt tcatccaaag ctgtagtgtt gggaactggg gtgggagagg 300
cactttttgg aattctgaaa gaatcatac tgtgtatata catactgagt ggggaaggat 360
ggggggttggc aggggttgag ggaggtggga acaaacagtg agtatgggaa caggcagtca 420
cctcgagtgt gggaggtcac ctgggtccgt cgtcttcctt ctgtatggtg ttgggtttat 480
gtacacacta taacacttcc tgtgtgagtt catgtacctg tctgtgagtg ctttgggtga 540
ttgagcctca gtacactcca agggcatt 568

<210> 319

<211> 543

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (36)..(36)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (62)..(66)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (402)..(402)

<223> n is a, c, g, or t

<400> 319

ttaaagtact tctctagtca ttgaagtttt ttttncctt acataaatat tgatatattc 60
tnnnnnctac tcaaagtgcc aaaggctaca gttttaatg acttaacaaa ttgtaccaca 120
ttgtaagga catataatga tagacactag aactcagacc tctgcatgta tatttgataa 180
catgtctttt gtaaacaata aattacaaaa aaatttggtt acattccact ggtaccttaa 240
ttaaaataa atcagactaa aaggtgggtat ctctcttag tgttctattt atcttatttg 300
ctaattgggag cacttctcc ttgttaggc tgtgctttac tgataaaacc aagtattgaa 360
taaagagagt taattatctt tttaaagtaa ataaaattat gnaaatatat atagtatata 420
taaagtactg tgttataaaa aatgttatgc aatgtttcc aaactgataa agtttgtaaa 480
gtgctataaa tgtattttgt taagtacaga taaaagctat tgtgtgagta tattgtgcta 540
aaa 543

<210> 320

<211> 258

<212> DNA

<213> Homo sapiens

<400> 320

```
gagagacgct ccattgtgaa taaagagctc ataccagctc ctaagcccta ttaagaagag   60
gcctggctct ctaatgcctt gtttccattt cagttgttct ttgagagaca gaatgatgta   120
ctaaccattc gtgattatta agataggggtt gggtcagggc ttagggaggg ggcagaaaata   180
ttggggatag aaaaaaaatc tgatcattcc tcagtgtctac ccatttctgt cctgtgtggg   240
ctgcttagct agacagca                               258
```

<210> 321

<211> 263

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (92)..(92)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (190)..(190)

<223> n is a, c, g, or t

<400> 321

```
aggggaagaa acgacagcct cacitctgta tggactgctg atgtggcctg ccacctgtt   60
cagcgggcat tgtctttgga gcagcaggag antaggatgc ctctactca catgccagt   120
cctggctggc cagctgtcga gggctcaggc tggggcctcc cattgacatc cccccctac   180
actccctctn tgagcctccg tcgcccctcc tgttgggtaa ggggtgtgag tgtgactgt   240
gctgaaaacc tggttcatat ata                               263
```

<210> 322

<211> 529

<212> DNA

<213> Homo sapiens

<400> 322

```
gactgtctca tgtatctgca agggccgagg aaattaatga cccaaggagg ctatgatatg   60
gtccaaaaac ttttctgga tttttccgt aggcggctga gccagaggcc aactgcagag   120
gaactggaac agaggaacat ttgaaacct cggaatgaac aagaggaaca ggaggagaag   180
agagagatca agaggaggct aaccgaaaag ctactcaaa ggcccacggt ggaagagctt   240
cgggaaagaa agatcctcat ccgttcagt gactacgtgg aggtggctga cgctcaggac   300
tatgaccgca gggcagataa gccgtggacc cgctcaccg ctgcagacaa agctgccatc   360
cgaaaggagc tcaatgaatt caaaagcact gagatggaag ttcataaatt gagtagacac   420
ttaacaaggt ttaccgacc ttaacagtcg aattcctctt gagtgtatg ctgtctcaa   480
aacataaatt tataagaacc ataagtctg gtatttattc acttcccca                               529
```

<210> 323

<211> 467

<212> DNA

<213> Homo sapiens

<400> 323

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gacatggtac cagatgcgct gcagcagaac ccggggcgct tcaggctagc tcccgcctg   60
cctgcccggc cccaccgagg cctgagcacg ttcccgggtg ccgagcactg cctccgggct  120
tcccccaaga ccacgcttag cggtaggcttc ttggtgctg taattgaacg ggtcgagatg  180
ccgacgtgag tgagtggggg catgcttggg aggcgcagga tggtagtggc acatctaaca  240
tctacacttc tctagctcag cctcacaggc caaagcatca gcaccagaac gcacaccag   300
cccagcccca aagagaaaga agagacagca aagagccgca gccggtgctt gcacaccgcc  360
ttgcacatag cagagggtcc aggcgtgact cttcctggtg ggaaaggaag atgcctgtcc  420
ttccgtgga ggaccctggg ccctcaccgc aggcagcagt ttgcatt   467
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<210> 324

<211> 145

<212> DNA

<213> Homo sapiens

<400> 324

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gagaattccg aattggggaa cacacgatac ctgttttct ttccgttgc tggcagtact   60
gttgccgcgc agtttgagat cactgtagt aagtgtgat gcatgtgcgt caccgtccac  120
tctctact gtatttatt ggaca   145
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<210> 325

<211> 208

<212> DNA

<213> Homo sapiens

<220>

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<222> (85)..(85)

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<222> (100)..(100)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (102)..(102)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (119)..(123)

<223> n is a, c, g, or t

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<222> (125)..(126)

<223> n is a, c, g, or t

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<222> (128)..(128)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (148)..(148)

<223> n is a, c, g, or t

<400> 325

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agcaggcaac aacatgctgc tggtngggggt tcatggcccn angaccccct gcgaggagnn 120
nnngnngnag cacgtgggca gccggctnta cagcgtgtcc tacctgctca aggacaaggg 180
ggagtacaca ctggtggtca aatggggg 208
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<210> 326

<211> 354

<212> DNA

<213> Homo sapiens

<400> 326

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ttgccaatgg gcgcgggaga cattgtatac acatcatgct atttaaaata cgttcaaact 120
atagtgtaaa tgctaattaa ccatattggt atataaccgg aattttatat taaaaggggc 180
ctccttttta aatatatgcc gtgtaaaaaa tgtacttata ggaacatctc ttgaattgt 240
attcttcta tattacatac ttagagagag actcttttag ccaggcaaag tctttttgg 300
ctgtggctgg aataaatcat ttattacttg ggagtcccat ttggacact aata 354
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<210> 327

<211> 518

<212> DNA

<213> Homo sapiens

<220>

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<222> (61)..(65)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (71)..(71)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (73)..(73)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (112)..(112)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (163)..(163)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (295)..(295)

<223> n is a, c, g, or t

<400> 327

aaggactggg atctttctgt gagcaataag gactggataa agactgcata tccttgtgtc 60
nnnnncagca ncnatacaat aaggagggtt ttaatgtgaa gcaggcaatc tncagcccc 120
ttctggcttt ggatgaaata gttgcacaga gtattgcacc aanaatacac aatggaggct 180
gaaaagtca acatatatta agtcaattaa tcaaattgca ttgattcttg atgttttctt 240
agaggcctac atgatttctt agattgctct gataaactat cataaggggt ccacntcccc 300
tcatttagct cccccaggga ttcttttcc cccatgtcat acaccagtc ctaaatcaac 360
ccccaggct atcttccat ccttctgca gagggaactt ttgtcagact ctgcaacaaa 420
ctcctagctc tatccagagt gtcctctgct gctaagattg gtatcttct cctcaaaagc 480
ctggatgtg aatgggggtg cattagtcag aattctcc 518

<210> 328

<211> 509

<212> DNA

<213> Homo sapiens

<400> 328

ccaaaggttg ttctcccat tgtgcatgtc cttcagtctc ggccccatac ccatcacccc 60
attcttcacc ctcatgttc catcccaagg caaacatgtg tcttcacgg aatctatggg 120
tgttgaagtt aaatgtgggg gcagagattt aacacatga cactaataca aatcaaccat 180
tcttcacttt caaatggta atcactacag gaaggcgaac tctttcttg gttttgttt 240
aaaaacatt tatacatata tatgtatata tgtgtgtgta tgtatggaca taggtatgta 300
tatgcacatg tacatgtata tatgtatata tccatcttca atataaatat atcataagt 360
agagttgtaa atactccttg gtcatatgtc tgtctttctc atagtatcat atcttcaatg 420
ttatgttaac aactccattt attgattgat gaaatcgtgt gtagacctgt atcctcctga 480
catagtttat gtagggtctc ttctcaaat 509

<210> 329

<211> 539

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (27)..(27)

<223> n is a, c, g, or t

<220>

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<222> (40)..(40)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (49)..(49)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (64)..(64)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (84)..(84)

<223> n is a, c, g, or t

<220>
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 <222> (90)..(91)
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 <400> 329
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 gagntcgagg aggaggaggg cgangacgan ncgtagatgc ccccgcgaga cgggttaggg 120
 aaagcggagg aggaaagcga ggggggtgggg ggcttcccgg gacgataacc tggcagtggg 180
 aggaaagaag catggtctac tttaggtgtg cgctgggtct ctggtgctct tcaactgttc 240
 ctgtcacctt ttttccitt tttgtaatat tgatgacatc aatgtaacat ttgagatatt 300
 tctgaattac tgttgaatg gctaaaatca cataaacgtt tgtgtcggaa tgggtgcctc 360
 tcttctctt ccttttctc ttattaacg atttaaatgt aactttctga acacattgca 420
 ttgaattctt cctttaacaa aaagcaaagg cgtaggtaaa agctcaaatg aattattct 480
 ttcggtatgg taaaattgaa ccaatcacag ttaagatgag agatcaacct gagttttaa 539

<210> 330
 <211> 471
 <212> DNA
 <213> Homo sapiens
 <400> 330
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 ctatttagta atctctttct taagcagagg agtggcaagg atggcaatct tgaatttat 120
 ttctgtaga gatagcattt cttctggtgc ggagctgaaa ggaatccacc cagaagtct 180
 gtagcatcct gcgtgcagcc tcttgagcc ccagactcca tctgggggag ggactgttt 240
 acaagcagtt ctgaccacct tagtgggtga ctgttttcta ggcaaaaaat atctgtctgt 300
 tgtactgtat agcctttaa atgcagtcca ggaatgagac tctttaaga aacacatcct 360
 gcttctgcaa ttccagagag tgctggggga aaaaaaggga taaaattcc tacctactca 420
 tcagtgtttg aaagatggag ctgaatagct ttctgttc ctggactagg c 471

<210> 331
 <211> 559
 <212> DNA
 <213> Homo sapiens

<220>
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 <222> (56)..(59)
 <223> n is a, c, g, or t
 <220>
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 <222> (61)..(66)
 <223> n is a, c, g, or t
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 <222> (68)..(69)
 <223> n is a, c, g, or t
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 <222> (88)..(88)
 <223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (127)..(127)

<223> n is a, c, g, or t

<400> 331

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nnnnnnngnng ccaagaactc gattcttnat gtgaaagctg aagtacacaa gtccttgga   120
agttacncag caagcttggc caaagccatt gaggccgaag ccaaaatcaa ctatttggg   180
gaggaggctt tgccaggggt ctgtgttaca gcacggactg tcccgggggg cggcttcggg   240
ggccgccgag gcagcagaac tctgtgagc cagaggctgc agttgcagag catcgaagaa   300
ggagatgttt tagctgccga gcagagatga gggcctcagg gtgccgtggg gctgcagcct   360
gagaggctgg cccggggagg agttcccatc accgcctgtg ccgcggcctt gggagcatgt   420
cactgtgtac agctggccac acacaggga ggagcagcat ctggtatgca gccaccagga   480
caaggactga aaataatgtc tacagtccac agttcagca ttccagaga ccacatgtga   540
gcttcttta ggtccagt                                     559
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<210> 332

<211> 115

<212> DNA

<213> Homo sapiens

<400> 332

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tcccgacggg cagaggagcc tgggtccga ggggacaagg agcctgggtt gccccaccc   60
cgctgaggga gttccttctg cccctaccc ccggggcttg tatatagatt ataaa      115
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<210> 333

<211> 486

<212> DNA

<213> Homo sapiens

<220>

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<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (99)..(100)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (106)..(108)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (119)..(119)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (152)..(152)

<223> n is a, c, g, or t

<220>

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<222> (175)..(175)
<223> n is a, c, g, or t
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<221> misc_feature
<222> (212)..(213)
<223> n is a, c, g, or t
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<222> (226)..(226)
<223> n is a, c, g, or t
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<222> (233)..(233)
<223> n is a, c, g, or t
<220>
<221> misc_feature
<222> (237)..(237)
<223> n is a, c, g, or t
<220>
<221> misc_feature
<222> (248)..(248)
<223> n is a, c, g, or t
<220>
<221> misc_feature
<222> (250)..(250)
<223> n is a, c, g, or t
<220>
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<222> (252)..(252)
<223> n is a, c, g, or t
<220>
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<222> (263)..(263)
<223> n is a, c, g, or t
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<222> (266)..(266)
<223> n is a, c, g, or t
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<222> (296)..(297)
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<222> (302)..(303)
<223> n is a, c, g, or t
<220>
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<222> (321)..(321)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (337)..(338)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (341)..(341)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (351)..(351)

<223> n is a, c, g, or t

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<222> (409)..(409)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (446)..(446)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (450)..(450)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (455)..(455)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (461)..(461)

<223> n is a, c, g, or t

<400> 333

tgacctgtcg tagaacatag ggatactgca ttctggaaat tactcaattt agtggcaggg 60

tggttttta attttctct gttctgatt ttgtngtnn ggggtnnntg tegtgttng 120

tgtgtgtgtg tgtgtgtgtg tgtgtgtgtg tntaacagag aatatggcca gtgcnttgag 180

ttctttctcc ttctctctct ctctttttt tnnaaataac tcttcnggga agntggnttt 240

ataagccntn tngccaggtg tanacntgtt gtgaaatacc caccactaaa gtttnnaag 300

tnnccatatt ttctccattg ngccttctta tgtattnnca nagattattc ntgtgcactt 360

taaatttact taacttacca taaatgcagt gtgactttc ccacacagnt ggattgtgag 420

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gtctct

486

<210> 334

<211> 473

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (191)..(192)

<223> n is a, c, g, or t

<400> 334

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caaggcgccc tcacctgctc ttcaagaaac agcgagaggg agaccagggg ggctgaaact  120
tgaactctgg tcttttaaa attaatttg gttggtgttg ggggaggcgc gagtgcgtgt   180
gagaagaacc nccccacccc gcgcaagggg aagcctctg tctcccctt cccgcgtcc   240
gagaaggcgg aaaccacag tgtacctga cttatgaaac ttgaaaccgc ctctggagcc   300
gccattctgc agagtatttg gaaaaagaaa aaagggttta tgcttacgtc tctggggtcg   360
gggggattat gtcacgagcg ttcaactgc tggaaatctc aaaactgtac tgtctttatt  420
ttgtatatat gtatttatat ataaaaagaa acgtctacgt atgcatgcta aat       473
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<210> 335

<211> 562

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (241)..(243)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (247)..(247)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (251)..(253)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (256)..(256)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (259)..(259)

<223> n is a, c, g, or t

<220>

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<222> (261)..(264)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (339)..(348)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (352)..(353)

<223> n is a, c, g, or t

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<220>
<221> misc_feature
<222> (355)..(355)
<223> n is a, c, g, or t
<220>
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<222> (357)..(357)
<223> n is a, c, g, or t
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<222> (359)..(360)
<223> n is a, c, g, or t
<220>
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<222> (362)..(366)
<223> n is a, c, g, or t
<220>
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<222> (404)..(404)
<223> n is a, c, g, or t
<220>
<221> misc_feature
<222> (537)..(537)
<223> n is a, c, g, or t
<400> 335
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ggaagattac atttttttc ctttgaaac tgaatgcat aatctcgatc aaaccgatcc   120
agaataccga agatcggcac aggacagaaa agcgagtcgc aggaggaagg gagatgcagc   180
cgcacagggg atgattaccc tcctaggacc gcggtggcta agtcattgca ggaacggggc   240
nmgttntct nnnngnacna nnnnggagct catctctttg gggtcacagt tctattttgt   300
ttgtgagttt gtattattat tattattatt attattatnn nnnnnnnntt tnntntntnn   360
gnnnnntgag caactcaaag aggcagaaga ggagaatgac ttnccagaa tagaagtgga   420
gcagtgatca ttattctcgg ctttctcttt ctaatcaaca cttgaaaagc aaagtgtctt   480
ttcagccttt ccattcttac aaataaaaact caaaaaagcc gtccagctta tcccatnctc   540
tgattgtctt ctgacttaag gg                               562

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<210> 336
<211> 189
<212> DNA
<213> Homo sapiens

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<220>
<221> misc_feature
<222> (85)..(85)
<223> n is a, c, g, or t
<400> 336
tctgacttcc atctgggggc tgagaccacc ctgacctgcc ccttctttc tgccttaaga   60
atgtcctttt aggctgggca tggtnggctc acgcctgtaa ccccgactct ttgggaggcg   120
gagacgggca gataacctga ggtcaggatt tcgagaccaa cctgacctac atggagaaac   180
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<210> 337
<211> 523
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (38)..(38)
<223> n is a, c, g, or t
<220>
<221> misc_feature
<222> (47)..(47)
<223> n is a, c, g, or t
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<222> (74)..(74)
<223> n is a, c, g, or t
<220>
<221> misc_feature
<222> (86)..(86)
<223> n is a, c, g, or t
<220>
<221> misc_feature
<222> (109)..(109)
<223> n is a, c, g, or t
<220>
<221> misc_feature
<222> (434)..(434)
<223> n is a, c, g, or t
<220>
<221> miscfeature
<222> (456)..(456)
<223> n is a, c, g, or t
<400> 337

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tgaggagatt gccatggcga ccgtcacagc gctgcgcngc acagtgnccc ccgctgtcac   60
tgggatcacc ttctgtctg gagcnagag tgaggaggag gcgtccatna acctcaatgc   120
cattaacaag tgccccctgc tgaagccctg ggccctgacc ttctctacg gccgagccct   180
gcaggcctct gccctgaagg cctggggcgg gaagaaggag aacctgaagg ctgcgcagga   240
ggagtatgtc aagcgagccc tggccaacag cctgcctgt caaggaaagt acactccgag   300
cggtcaggct ggggctgctg ccagcgagtc cctcttcgtc tctaaccacg cctattaagc   360
ggaggtgttc ccaggctgcc cccaacactc caggccctgc cccctccac tcttgaagag   420
gaggccgct cctnggggct ccaggctggc ttgcncgcgc tctttctcc ctcgtgacag   480
tggtgtgtgg tgtcgtctgt gaatgctaag tccatcacc ttt                               523
```

<210> 338
<211> 493
<212> DNA
<213> Homo sapiens

<220>

<221> miscjfeature

<222> (161)..(161)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (163)..(163)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (165)..(176)

<223> n is a, c, g, or t

<400> 338

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tattgtcatc tgatatacac ataaaacaac tcacattggt ggagttaact aattatcccc   60
atttcattggt ttccagtggc aacttactga cccctgtttt tgcctgtgct tgtatgcatg   120
cattttcaag caagtaataa agcagcctca ttaattctg nanannnnnn nnnnnnacat   180
atagactgaa tgctataatc aaatctattg acagtatctg cagttctttc agaattccag   240
ggcaataat ataacgacct gatattttc tacaggaata tttcagaca ttatatagca   300
cattactgat ttaatgcttt tacttttatt ttcaaaaaca aattcactaa aaattaacag   360
ctatgattct gaagtcacct ttctcaaacc ttgaaaatga gctctaggat ctctataaac   420
atttctaaca ctttctctgt agttaccata gacagacatc tgtcgttaga cctgtgtggt   480
atttcaaaga act                                     493

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<210> 339

<211> 463

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (61)..(61)

<223> n is a, c, g, or t

<400> 339

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ngccaaatac ctgatggaac taactatggt ggactatgac atggtgcact ttctccttc   120
tcaaattgca gcaggagctt ttgcttagc actgaaaatt ctggataatg gtgaatggac   180
accaactcta caacattacc tgcatatac tgaagaatct ctctccag ttatgcagca   240
cctggctaag aatgtagtca tggtaaatca aggacttaca aagcacatga ctgtcaagaa   300
caagtatgcc acatcgaagc atgctaagat cagcactcta ccacagctga attctgcact   360
agttcaagat ttagccaagg ctgtggcaaa ggtgtaactt gtaaaactga gttggagtac   420
tatatttaca aataaaattg gcaccatgtg ccatctgtac ata                     463

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<210> 340

<211> 262

<212> DNA

<213> Homo sapiens

<400> 340

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taagtgtgaa gaatgcgaga agagcttcaa acagcgctct gacctcttta aacaccacag   60
aatccacact ggggagaagc cctatggatg ttccgtctgt gggaaacgct tcaatcagag   120
tgcaaccctc attaaacacc agagaattca cactggggaa aagccttaca aatgtcttga   180

```

atgtggggaa agatttagac aaagtacaca ccttatccga caccaaagaa ttcatcaaaa 240
taaagtgtg tcggctgggc gt 262

<210> 341

<211> 459

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (181)..(181)

<223> n is a, c, g, or t

<220>

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<222> (287)..(287)

<223> n is a, c, g, or t

<220>

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<222> (316)..(319)

<223> n is a, c, g, or t

<220>

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<222> (324)..(325)

<223> n is a, c, g, or t

<220>

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<222> (328)..(330)

<223> n is a, c, g, or t

<220>

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<223> n is a, c, g, or t

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<222> (381)..(381)

<223> n is a, c, g, or t

<220>

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<222> (386)..(386)

<223> n is a, c, g, or t

<220>

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 <223> n is a, c, g, or t
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 <222> (430)..(430)
 <223> n is a, c, g, or t
 <400> 341
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 gtagggtaaa tgacctgat agcaataact taagcacacc ttataatga ccctatatgg 120
 cagatgctcc tgaatgtgtg ttctgagcta gaaaatccgg gagtggccaa tcggagattc 180
 ngtttcttat ctataataga catctgagcc cctggcccat cccatgaaac ccaggctgta 240
 gagaggattg aggccttaag tttggggtta aatgacagtt gccaggngtc gctcattagg 300
 gaaaggggtt aatgtnnnnt gctnnatnnn ctgcatgatg ttgcaggca gttgtggttt 360
 tntgcccag cctgncacca ncggnccat gcggatntgt tntccancc naacaccncn 420
 ggaccatttn tgtatgtaag acaattctat ccagcccg 459

<210> 342
 <211> 492
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (254)..(254)
 <223> n is a, c, g, or t
 <220>
 <221> misc_feature
 <222> (315)..(315)
 <223> n is a, c, g, or t
 <220>
 <221> misc_feature
 <222> (388)..(388)
 <223> n is a, c, g, or t
 <400> 342

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caggcaaaa catgctgctg gtgggggttc atggcccaag gaccccctgc gaggagatcc 120
tggtgaagca cgtgggcagc cggctctaca gcgtgtccta cctgctcaag gacaaggggg 180
agtacacact ggtggtcaaa tgggggggacg agcacatccc aggcagcccc taccgcgttg 240
tggtgccctg agtntggggc ccgtgccagc cggcagcccc caagcctgcc ccgctacca 300
agcagccccg ccctnttccc ctcaaccccg gccagggccg ccctggccgc ccgcctgtca 360
ctgcagccgc ccctgccctg tgccgtgntg cgctcacctg cctccccagc cagccgctga 420
cctctcggtt ttacttggg cagagggagc catttggtgg cgctgcttgt cttcttgggt 480
tctgggaggg gt 492

<210> 343
<211> 333
<212> DNA
<213> Homo sapiens

<220>
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<222> (274)..(274)
<223> n is a, c, g, or t
<220>
<221> misc_feature
<222> (299)..(299)
<223> n is a, c, g, or t
<400> 343

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gaagagcttt gggaagcaaa ggcagaggcc ctgggggtggg agcaggcttg tttattgga 120
aggaccagaa aactggttaag tgtgaccag atcaagtgtg aggagatgag gctggggata 180
gtcaggggct ggatcaccca gggccttgtg ggccccacat agggtttgg gttttattct 240
cagggcaatg ggaagctgtt ggtggtttg atgnaagggg agtgacagga tccgatgtnc 300
ctattaaga atttaagagg gtcgggtgcg gtg 333

<210> 344
<211> 514
<212> DNA
<213> Homo sapiens

<220>
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<223> n is a, c, g, or t
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<223> n is a, c, g, or t
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<222> (91)..(91)
<223> n is a, c, g, or t
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<223> n is a, c, g, or t
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<223> n is a, c, g, or t
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<221> misc_feature
<222> (109)..(109)
<223> n is a, c, g, or t
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<221> misc_feature
<222> (133)..(133)
<223> n is a, c, g, or t
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<222> (138)..(138)
<223> n is a, c, g, or t
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<222> (150)..(150)
<223> n is a, c, g, or t
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<221> misc_feature
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<223> n is a, c, g, or t
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<222> (170)..(170)
<223> n is a, c, g, or t
<220>
<221> misc_feature
<222> (316)..(316)
<223> n is a, c, g, or t
<220>
<221> misc_feature
<222> (411)..(411)
<223> n is a, c, g, or t
<220>
<221> misc_feature
<222> (481)..(481)
<223> n is a, c, g, or t
<400> 344

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tgccaccnca aaccatcaca gagtctttaa ntgcaantca atnggtcant gctagtcaaa 120
gctatgttct tanaaaancc ccagacagcn tcagagcntc agaaaatcn tgtggagtgg 180

ctgctctgta ccgtgggcat ccggcagcca ggaagtgaga caacataatt ataactttgt 240
tttatgatgc tgcattcatt gtactgttta ggtagacgtg aggacatcat cttatttaga 300
attttccgtt tggcantctc ttttgggtgg gagttatgct ggggggttga aataatgaca 360
aggctgagat ttttatgatg tttaaattgg gcacaatgat ttgacctta ntccccaac 420
ttcttttctt ttctactgtt taacatacac aggctattta tacacgtccc cagctcccat 480
ntgaaacctg tgactcaggt ttatgaatgg tggt 514

<210> 345
<211> 387
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (289)..(289)
<223> n is a, c, g, or t
<220>
<221> misc_feature
<222> (302)..(302)
<223> n is a, c, g, or t
<220>
<221> misc_feature
<222> (309)..(309)
<223> n is a, c, g, or t
<220>
<221> misc_feature
<222> (318)..(318)
<223> n is a, c, g, or t
<220>
<221> misc_feature
<222> (324)..(324)
<223> n is a, c, g, or t
<220>
<221> misc_feature
<222> (357)..(357)
<223> n is a, c, g, or t
<220>
<221> misc_feature
<222> (359)..(359)
<223> n is a, c, g, or t
<400> 345

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cccccgccg tccccctca tcgcccgcg cccaccccca tcgcccctgc ccccggcggc 120
ggcctcgctg gcgagggggc tccctcacc tcggtgcctc agttcccca gctgtaagac 180
agggacgggg cgccccagt gctgagagga gccggctgtg gagccccgc cgccccccac 240
cctctagggt gcccccgtcc gaggaggatc gtttctaag tgcaatacnt tggcccgcg 300
gnttcccgt gcccccantc gcgntcacgc aataaccggc ccggccccg tccgcgngng 360
tcccccggtg acctcgggga gcagcac 387

<210> 346

<211> 550
<212> DNA
<213> Homo sapiens
<400> 346

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ctccttgccc ctattgtgta gcagaaaccc cactttccct tggatattgg ggtaacct 60
cctgacagtg cagtgatctc ttctctgcc aatattcaa cataaggagc cccagatggc 120
acaagatcat ctccaattt aacagacca taactatatt ccctgggtgga agcagttcct 180
ctgggtcact agagatttcc aaaccacaa aacctaaggt ttcttggtta aaggccatgt 240
ttgtgggata tgctgagatg aatatgctgt ggttgaatg tgtccccc aa agtcatatg 300
ttggaaactt gattcccatt gcaacagtgt tgagatctgg ggcccaatga gaggtgatta 360
ggccatgagg gcggagtga tggattaatg cagttatctc aagagtgggt ttgttatgaa 420
gggggtgttt ggtcctcttt tctctcttgc ccatgtgatt cctccacca tgttatgat 480
gcaacaagaa ggtcctcacc agatgctggt tccttgatct tgtatttgc agcctccaa 540
atcgtgagcc 550
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<210> 347
<211> 535
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (256)..(256)
<223> n is a, c, g, or t
<220>
<221> misc_feature
<222> (502)..(502)
<223> n is a, c, g, or t
<400> 347

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tagagatcat ctagtcccat caactcacta tatatatgag gaacctgagg tccagagtgg 60
ggaagtgtct tacccaaggt cacatgggtt cagagaaatt atgtgaatc caataagcct 120
tcccgacat tccaagcctc ttaacctgg catctatgtt gaggatgtca atgtttattt 180
cagcaaagga cgtcatggct ttataaaact cctttaagc ctcttggtt tgatgtcacc* 240
ttggtaggct gggcctctg agaggttga agctctaggc attgttctct ttgatccag 300
ggatgctaag tagaaactgc atgagccacc agtgcctggg cacccttaa caccaccaga 360
tgggtgtttt ccccatcca cactggcag ggtgcccct tcctccaat catcactgtg 420
ctccttttt cccggcctac gaggcagctc ctgccactat cttagagcc aataaagaga 480
attaaaaacc tgtgcaccag gnagcatctt ttaaatacac tagccattct ctgac 535
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<210> 348
<211> 517
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (210)..(210)
<223> n is a, c, g, or t
<220>
<221> misc_feature

<222> (481)..(481)

<223> n is a, c, g, or t

<400> 348

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tgcgtggat gcctcctgaa agcatcatgt accggaagtt cactacagag agtgatgtat   60
ggagcttcgg ggtgatctc tgggagatct tcacctatgg aaagcagcca tggttccaac   120
tctcaaacac ggaggtcatt gagtgcatta cccaaggtcg tgttttggag cggccccgag   180
tctgccccaa agaggtgtac gatgtcatgn tggggtgctg gcagagggaa ccacagcagc   240
ggttgaacat caaggagatc tacaaaatcc tccatgcttt ggggaaggcc accccaatct   300
acctggacat tcttggttag tgggtggctgg tggatcatgaa ttcatactct gttgcctcct   360
ctctccctgc ctcacatctc cttccacct cacaactcct tccatccttg actgaagcga   420
acatcttcat ataaactcaa gtgcctgcta cacatacaac actgaaaaaa ggaaaaaaa   480
naaagaaaaa aaaaccctgt aaggcagttt ggcaaat                               517
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<210> 349

<211> 459

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (83)..(83)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (298)..(298)

<223> n is a, c, g, or t

<400> 349

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ggacaaacag cctctgcaat acttgaggag ctgttagaa acccaaactc acagccccct   60
ccagacctac gtacagaatg tanattagca agattcgcta ggtggtttat gtgcacgtta   120
aagtttaaga agcactgcct gagaatccct tggctctaataa ttattctttt ccacactcag   180
atttgctaata gggtttcacc ttatctcttg actcttggtt gatggcaaca ggaaatagta   240
gcatttcagg aagggtggaa aatataaaaa gcactcccaa cccaagcctc caaaaaanca   300
gcaattttca tttgtgtcc atatatccccc ttctaatacat tgtctcatg caagattttt   360
tttcataaag atgatctgct acataatttt atatcatact ctttctccta acattacatc   420
acaagtatac ttcatgttg ctgctacatt cttcacact                               459
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<210> 350

<211> 485

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (33)..(34)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (88)..(88)

<223> n is a, c, g, or t

<220>

<221> misc_feature
 <222> (288)..(288)
 <223> n is a, c, g, or t

<220>

<221> misc_feature
 <222> (349)..(349)
 <223> n is a, c, g, or t

<220>

<221> misc_feature
 <222> (380)..(380)
 <223> n is a, c, g, or t

<400> 350

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tttattctta ttcccgatc ttgagagag gannagagtg ggattgctac ccacatttta   60
atgaagggtg agctgagccg tagaactntc tgggagccat ccaacctggc tgtggctcat   120
aacaagggtat tgatcacttc ctttggcctg agtgagtcca ggggtgcctag acaagaggta   180
gcagcctgtg gatgtccagc accttgcag ggaatacagg gcccaatctg gcacatgccc   240
cttttctcc agggccagag caggggctgt tgGcgaaagg ctgtggancca acaagttgac   300
atctgacctg acattgcct atgaacgttt gtcacacttc cgctgtgant tgcagaggta   360
agcaagctgt ggggccttcn caaggcggag caggccagat ccagggctgg ggaacccctt   420
agagagagga agacaataat taacaatagc taacacttac agaggcttat agtcagccct   480
catcc                                         485

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<210> 351

<211> 553

<212> DNA

<213> Homo sapiens

<400> 351

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agtgttcttc tctctggcaa agatttgtgt actgttgggg gaagattcat gttattctc   60
aggtagactt tacttttga gattctgtgt gtgtgtgtgt gtgtgtgtgt gtgtgtatgt   120
gtgtgtgtgt gtgtatttg cctggtgggg ggtaaaggc agatagaatg tagttgttta   180
tgagtttata ctttctctt agcataatag atgccctgtt tattttctca gaatgtgaca   240
ataaaattag gaaaggagag gaattcagag gcccatgttg cagttcatgg caaagtttta   300
cccaaataat tccttcagaa acatttagtc atagcaagcc atataaatta ttgtctgcaa   360
ctggtatcag aaaaagaaat cagtaggtgg ggactgtaga cccaatggt gcatctgttt   420
acaatcttcc tttccaagg ttttaagggt catgaataac atgagggaat ttggggagag   480
ctaccacatc agtactttgg cacgcattaa ctgtccaca ggaaaactag ggttgcttca   540
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<210> 352

<211> 447

<212> DNA

<213> Homo sapiens

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 <223> n is a, c, g, or t

<220>

<221> misc_feature
 <222> (193)..(193)

<223> n is a, c, g, or t

<220>

<221> misc_jfeature

<222> (297)..(297)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (319)..(319)

<223> n is a, c, g, or t

<400> 352

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attgcctgta tgatcgggta cgcaccttgc ccctggatga aatgggtctg gtccttcttc   120
accccgctgg ttgcatggg catcttcac ttcaacgttg tgtactacaa gccgctggtc   180
tacaanaaca ccnacgtgta cccgtggtgg ggtgaggcca tgggctgggc ctctgtgctg   240
tcctccatgc tgtgcatgcc actgcacctc ctgggctgcc tctcagggc caaggggnacc   300
atggctgagt gctggaagna cctgaccag cccatctggg gcctccacca ctggagtag   360
cgagctcagg atgcagatgt caggggcctg accaccctga cccagtgctc cgagagcagc   420
aaggtcgtcg tggaggagag tgcacatg                               447
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<210> 353

<211> 538

<212> DNA

<213> Homo sapiens

<400> 353

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gccagctttg ggctgagcta acaggaccaa tggattaaac tggcatttca gtccaaggaa   60
gctcgaagca ggtttaggac caggtcccct tgagaggta gaggggcctc tgtgggtgct   120
gggtactcca gaggtgccac tgggtgaagg gtcagcggag cccagtgcc tcttgtgca   180
tagaccttct tctccaccc cttctgccc ctgggtcccc ggccatccag cggggctgcc   240
agagaacccc agacctgccc ttacagtagt gtagcgcccc ctccctcttt cggtggtgt   300
agaatagcca gtagttagt gcggtgtgct ttacgtgat ggcgggtggg cagcgggcgg   360
cgggctccgc gcagccgtct gtccttgatc tgcccgcggc ggcccgtgtt gtgtttgtg   420
ctgtgtccac gcgtaaggc gacccccctc cccgtactga ctctcctat aagcgttct   480
cttcgcatag tcacgtagct cccacccac cctcttctg tgtctcagc aagtttta   538
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<210> 354

<211> 556

<212> DNA

<213> Homo sapiens

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<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (91)..(91)

<223> n is a, c, g, or t

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<222> (100)..(100)

<223> n is a, c, g, or t

<220>

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<222> (109)..(109)

<223> n is a, c, g, or t

<220>

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<222> (112)..(112)

<223> n is a, c, g, or t

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<222> (121)..(121)

<223> n is a, c, g, or t

<220>

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<222> (138)..(138)

<223> n is a, c, g, or t

<220>

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<223> n is a, c, g, or t

<220>

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<222> (162)..(162)

<223> n is a, c, g, or t

<220>

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<222> (169)..(169)

<223> n is a, c, g, or t

<220>

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<222> (184)..(184)

<223> n is a, c, g, or t

<220>

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<222> (186)..(186)

<223> n is a, c, g, or t

<400> 354

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gtagatgacg gctnccgcat ccacgtcatt naccacagtn gcgccccgcnt tngtgagtat 120

naggacgtgt cccgggtnga gaagtacacg atctncacaa gnaagcctna cgaccagagg 180

nnanganacgg gcaggtgggc gtcgagggac acggtccgct ctttctgaa gcgcagcaag 240

ctcggccggt acaacgagga ggagcgggct cagcaggagg ccgaggccgc ccagcgctg 300
gccgaggaga aggccaggc cagctccatc cccgtgggca gccgctgtga ggtgcgggcg 360
gcgggacaat cccctcgccg gggcaccgtc atgtatgtag gtctcacaga ttcaagcct 420
ggctactgga ttggtgtccg ctatgatgag cactgggga aaaatgatgg cagtgtgaat 480
gggaaacgct acttcgaatg ccaggccaag fatggcgcct ttgtcaagcc agcagtcgtg 540
acggtggggg acttcc 556

<210> 355

<211> 497

<212> DNA

<213> Homo sapiens

<400> 355

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aaaacgagaa caagaccgcg gccccggcca ccaccggcca agacagggt gaagcagagg 120
aggaagagga agagtgcacg atggagaaag ggcacaggaa gagacatgag aaggagagc 180
aagacaagca gctctgggaa ctgaatcagg aaactcaa cgaataggga actaaaaaac 240
aaaacaaaaa acaaaaaaaaa accctattta aatgaaacga gtttaaaaac 300
atttttaag gagggaggtt tggttttt gtacaatatg aaaaggacat tatctacctg 360
ttctgtagct ttctggaatt tacctccct ttctatgtt gctattgtaa ggtctttgta 420
aaatcttga gttttgaag cctctttaa tgctgtctt gtggactgtg ggtctggact 480
aacctgtgg ttgcctg 497

<210> 356

<211> 533

<212> DNA

<213> Homo sapiens

<400> 356

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acaccatgct cccattcgc tggatgcctc ctgaaagcat catgtaccg aagttcacta 120
cagagagtga tgtatggagc ttgggggtga tctctggga gatcttacc tatggaaagc 180
agccatggtt ccaacttca aacacggagg tcattgagt cattaccaa ggtcgtgtt 240
tggagcggcc ccgagtctgc ccaaagagg tgtacgatgt catgctggg tgctggcaga 300
gggaaccaca gcagcgggtg aacatcaagg agatctaca aatctccat gcttgggga 360
aggccacccc aatctacctg gacattctg gctagtgtg gctgggtg atgaattcat 420
actctgtgc ctctctctc cctgctcac atctccctc cacctcaca ctcttccat 480
ccttgactga agcgaacatc tcatataaa ctcaagtgc tgctacacat aca 533

<210> 357

<211> 534

<212> DNA

<213> Homo sapiens

<400> 357

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atggcaccag gatttgaaatc tgggtcttta tacatcatag cccatgctgt tctcactgta 120
ttttgcttt tccaagtata accccgttt cacacgaatg gcccttcac atattgaaag 180
actaccgtcg tgtccgtgct gaccttct cctgccaca catggctgga gtgcaatggc 240
gcgatctcgg ctactgcaa cctctgtct ccaggttcag gaaaatggct ttgtaaagaa 300
gcttgagcct aaatctggct ggaatgact tctagaagt acaggaaaga tctgtgaaat 360
gctctctgt cctgaagcaa tactgttgac cagaaaggac actccatatt gtgaaaccgg 420
cctaatttt ctgactctta cgaacacgat tgccaacaca tacttctact tttaataaaa 480

caactttgat gatgtaactt gaccttcag agttacagaa atttgtccc tatt 534

<210> 358

<211> 260

<212> DNA

<213> Homo sapiens

<400> 358

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ggcatcagtg gtagtccaa ataaaaatg ggcttgggga tggaatgggt ggtggttaagt 180
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<210> 359

<211> 399

<212> DNA

<213> Homo sapiens

<400> 359

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cccccaactg actgcctgcc ccccgctcg ggccagacca atggctgaga gccacagctg 180
acaaagtctg catgtccgag gacggcccct gactggagc tgggcgccag agctgcagag 240
ctagtgttcg gccctcagag aaggatccag aatcaaaagc tcaagagtga cgtgaggtgg 300
gcaccggccc caagtgcaga gtcaaggcag ggagaggccg gctggagcca ggcccctcg 360
cacgcagccc ccaaatcatg gacgcacctg tggggagca 399

<210> 360

<211> 458

<212> DNA

<213> Homo sapiens

<400> 360

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tctcaaacac ggaggtcatt gagtgcatta ccaaggtcg tgtttggag cgccccgag 180
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<210> 361

<211> 518

<212> DNA

<213> Homo sapiens

<400> 361

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gggggtgacc tctgccgctt gcctgggtat ctgggcctgg ccatggctgt gttcttcatg 180
tgttgatttt attgacccc tggagtggg ggtctcatct tcccatctc gcctgagagc 240
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agggatggct ccgaagccag aaatgcctta aactgcaacg tcccgtcct tccccacccc 420
catcccatcc ccaccccag cccagccca gtctcctag gagcaggacc cgatgaagcg 480
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<210> 362

<211> 560

<212> DNA

<213> Homo sapiens

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<222> (153)..(153)

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<220>

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<223> n is a, c, g, or t

<400> 362

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ggcatggtgg ctcatgcctg taatcccagc acnttgggag gtgaggtggg tggatcatct 180
gaggtcagga gttaagacc agcctggcca acatggagaa actccgtctc tactananat 240
acaanaatna accaggcttg gtggtgtatg cctgtaatcc cagctacttg ggaggctgag 300
gcaggagaat cgcttgatcc caggaaggca gaggtggcag tgagctgaga acgcacaact 360
gcactccagc ctgggtgacg agcaaaactc catctcaaaa caaaagtcc acaaccagcc 420
tggagntgtg tagccctttt gtccanggaa nttgactagt caatcagtga cacctggtac 480
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<210> 363

<211> 390

<212> DNA

<213> Homo sapiens

<400> 363

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ttttaagtac atttttatat gtcagttgct gcccttcaca ctaccaggcc ctgcagccac 180
agtgttctgt tggagaaact tggggaagtg tttctgaac cagttctttt tcttggggta 240
gagcgtgaaa tccagacctg ttttgaaag gacagcacag gaggagaaaa gtgactggga 300
cgatgcttcc tctcatcaa aacacatgca gagtcacatc ctatcctag tgtttggcag 360
tttgagaccg ctaccctgaa ctaagagct 390

<210> 364

<211> 532

<212> DNA

<213> Homo sapiens

<400> 364

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tgacaggcgg catctccact aagcctgtgt aactgtccc tcttgggtt tcttagcttt 180
tgaattgaa gaagtacttt tgaagactcc cattttaaga accgtgcaga ttttgctacc 240

aaaagtcttc accactgtgt tcttaagtga atgtaattt ctgaggtttg ggactttgtg 300
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 aaatgctgca catccagatt gcatatcagg acattggta ttttatgctt tcttgatat 420
 aaccatgac agagtgccat ggccactacc ccactgttg ctctcctgca aatcaactgc 480
 ttttaatta cactaaaca aattgtttg agtgtagct actgccttc ta 532

<210> 365

<211> 471

<212> DNA

<213> Homo sapiens

<400> 365

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 ccagcaactg tgccccgct cagtctttga gcgagcccat ttgtggatt gtgtcctatg 180
 cgctcatgag cgtctgtgga gccatcctcc ttgtcttaat cgtcctgctg ctgctgccgt 240
 tccgggtgca gcgtcgcccc cgtgaccctg aggtcgtcaa tgatgagtcc tctctggtca 300
 gacatcgctg gaaatgaata gccaggcctg acctcaagca accatgaact cagctattaa 360
 gaaaatcaca ttccagggc agcagccggg atcgtatgtg gcgctttctc ctgtgcccac 420
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<210> 366

<211> 505

<212> DNA

<213> Homo sapiens

<400> 366

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 tgaaattggt ggtaatgcag aagagaatgc tgcagaattt ttgaagcaac ataattcagg 180
 tccaaattcc aagcctgtag tgccttcat tgcgtgttta actgctctc ctgggagaag 240
 aatgggtcat gccggggcaa ttattgctgg aggaaaagggt ggagctaaag agaagatctc 300
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 ctacaaggaa ttgaaaaga ggaagatgct atgaaagaaa aaaaaaattc ctaaaactgt 420
 ggaatggatc acgtagacat gtaaccagc agcagtttgc ttctgtgtc cactgattaa 480
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<210> 367

<211> 312

<212> DNA

<213> Homo sapiens

<400> 367

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 cttactcat gccaaactcca ccctacatgg ctgccctgtg cctctgggat aaaccccaag 180
 cccctgagct tgtgtttaaa gccgttgccc ttgctcccc agctttgtca gctcaggtct 240
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<210> 368

<211> 501

<212> DNA

<213> Homo sapiens

<400> 368

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gctttgttaa attgtgttca gttctgttac acagtgcatt gccctttgtt gggggatgc   120
atgtatgaac acacatgctt gtcggaacgc ttctcggcg ttgtccctt ggctctcatc   180
tccccattc ctgtgcctac ttgcctgag ttctctacc ccgcagttg ccagccagat   240
.tgggagtcgt ttgttccaa tgggtgagc tgtctttgtc gtggagatct ggaactttgc   300
acatgtcact actggggagg ttgtcctgct ctacttcca cgatgaggcg ccctcttac   360
ctatccttc aactactact ctcttgaag cactattatt tattctccg ctgtctgcct   420
gcagcagtac tactgtcaac atagtgtaaa tggttctcaa aagcttacca gtgtggactt   480
ggtgttagcc acgctgttta c                               501
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<210> 369

<211> 569

<212> DNA

<213> Homo sapiens

<400> 369

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gggagccagg gactgtccgg gtagccagt ttgtcctgc cagtcctc cctgatccct   180
ccccacttc gcccttctc tatgaacta aaatcaaaa accacttccc tccatctcc   240
tccctgtcc tgcgtggagg gggaatgtgt gctggccagg gtggaggact gacacctga   300
gcctggggct ggctccccgg ggtccccgac tcagctggtg gctgtggagc tgagtccct   360
ccccgtaacc tctgaaggc cagcaccac catcactacc tgcacctgt gtgtccac   420
cctctggagg cctgggaacc tggctgcagc ctgggaaggc tggagaggca gacggtggga   480
cccaccagct ctctcccat cccgttctt cctggggcc aggcctacc tgtgtggtg   540
tgggtgggct gtcaagacgt gtcagtac                               569
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<210> 370

<211> 459

<212> DNA

<213> Homo sapiens

<400> 370

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gagtacagt gctgtggctt tcacaccaac cattccgac tgcagcatgg ccacccttat   180
tggctgtcc atcaaggtca agcttctgcg ctcccttct cagcgttca agatggacgt   240
gcacattact ccggggaccc atgcctcaga gcatgcagtg aacaagcaac ttgcagataa   300
ggagcgggtg gcagctgccc tggagaacac ccacctttg gaggttga atcagtgcct   360
gtcagccgc tctgagcct ggctttgac cctcagcct gcatactgt atcctggtcc   420
cagctcctgc cagggtgtt accgttgtt tcttgaatc                               459
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<210> 371

<211> 333

<212> DNA

<213> Homo sapiens

<400> 371

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cctctaccga cggacagggg ccagcttcca gcaggcccag gaggagttt cccagggcat   180
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cttcagcagc agaaccttcc acagagctgc ttcattctgct gccaagagg ccttccaggg 240
gaattagtc tctctcttc tctccccctc agcctttctc tcgcctgcct tctgagctgc 300
actttccgtg ggtgccttat gtggtggtgg ttg 333

<210> 372

<211> 422

<212> DNA

<213> Homo sapiens

<400> 372

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<210> 373

<211> 439

<212> DNA

<213> Homo sapiens

<400> 373

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gagatttcaa gagagcctac agtatgaaat cattttcaca aaataagcag cttgcttctg 120
aaatgtgtc ttcccgatg gctactacc tgcctctggt ggctgggatt cagatgccac 180
aaaactgtca gtattatag accaggctctg tgccacctcc tctctctct gtgctcagt 240
aggaggcagt aaatgaagtt acaggctagc acaataccta actcatgttt ccagtagac 300
ctgtagatat tactgtactt ttatgttctc aagaaataag ttgttgcta ttcagtgtta 360
cagatttctt tgtttcttt taattaaat acaagaagca gctgaggaaa gggagacaag 420
gtattttatt tctgactga 439

<210> 374

<211> 453

<212> DNA

<213> Homo sapiens

<400> 374

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tcccactcca gaagaactgc ggcacgtgct tcgggcagcc tagccacagg ctttgagcgc 180
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agtcagggac agaagggaag ggaccacag gaagtcacag tgggtcccag ggatgtgtca 420
gccccagcc acggggacgc gggattcaag aat 453

<210> 375

<211> 488

<212> DNA

<213> Homo sapiens

<400> 375

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cacctccga gtcctcctg gagaccctg tcacctctg accaacctt cccagggcgg 420
cacgatcac cgagcagccg tgcgtgtatc tcaaggaact aaataagatg acgtactcc 480
tcatagca 488

<210> 376

<21 1> 485

<212> DNA

<213> Homo sapiens

<400> 376

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ttcaaaattc tctgtattca aatttgattg tggcgaatct actcaaaaa ggaaaaataa 120
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gcagtttat gaaatatgtt ctataagatg tacattttt cattgtaaca tagaaattgt 240
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ctctctctc tcctctcta cctattaat ttcatttgt catgaggtt ttggatttgc 420
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<210> 377

<21 1> 569

<212> DNA

<213> Homo sapiens

<400> 377

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<210> 378

<21 1> 336

<212> DNA

<213> Homo sapiens

<400> 378

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tagaaaccaa gccacgggtc ttggccgtga ccctgataat aaatgggctc tctcagaggc 240
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<210> 379

<21 1> 525

<212> DNA

<213> Homo sapiens

<400> 379

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tatgggtagg acagctgcta cagctcgtt acaagaaaa cagcctggtg gctgaggagg 180
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<210> 380

<21 1> 525

<212> DNA

<213> Homo sapiens

<400> 380

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<210> 381

<21 1> 520

<212> DNA

<213> Homo sapiens

<400> 381

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gttattagaa aagtgggga tttcttgat ctttattgct gcttaccatt gaaactaac 180
ccagctgtgt tcccacact tgtctgcgc acgaaacagt atctgttga ggcataatct 240
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cattagcaca ttctgcttag ctaaaattgt taaaataaac ttaataaac ccatgtagcc 360
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<210> 382

<21 I> 261

<212> DNA

<213> Homo sapiens

<400> 382

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tgattccact aatagtagga agcaagagac ttaactatga gggacgttat gtgaatctta   180
agtcttacca gtccttgcat tagtacatta aatttggatg ttttgaagc aaattcatat   240
gatcgtgagt gatttctcca a                                     261
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<210> 383

<21 I> 424

<212> DNA

<213> Homo sapiens

<400> 383

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tacaggggac atggggagct tagatgatcc caaatgaag agcatgatgc ctactgatga   180
acagtttga gccatcattg tgcctggctt tgcaactttg tccattttat tgcctttat   240
attacgtac ttctaatga agtaaacca aaaaactag aggtatgaat taatgctaca   300
cattttaata cacacattta ttacatact ccccttttta aagccctttt gtttttgat   360
ttatatactc tgttttacag atttagctag aaaaaaatg tcagtgtttt ggtgcacctt   420
tttg                                     424
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<210> 384

<21 I> 460

<212> DNA

<213> Homo sapiens

<400> 384

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acctcccacc ctgcaaaggg aatctcttgc ctgctccatc tcataggcta agtcagctga   180
atcccgatag tactaggtec ccttcctccc gcacccgctc agctggaaaa ggctgtggc   240
ccagaggctt ctcaaaggg aggggtgacat gctggctttt gtgccaagc tcaccagccc   300
tgcgccacct cactgcagta gtgcaccatc tcatgacagt agcacgccct cctgggcccgt   360
ctggcctgtg gctaattggag gtgacggcac tccatgtgc tgactcccc catccctgcc   420
acgctgtggc cctgctggc tagtccctgc ctgaataaag                                     460
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<210> 385

<21 I> 434

<212> DNA

<213> Homo sapiens

<400> 385

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accaacagca gctcgtatgac ttgtacttga tcgccatctg ccatcgccgg ggcatcagat   120
ccctacgcga ccttactccg gagcacttgc cgctgctcag gaacatcctc caccaggggc   180
aggaggccat cctgcagcgc taccggatga agggagacca tctgcgagta tacctgcact   240
acctgccctc ctactaccac ctgcattgtc acttcaccgc cctgggcttc gagggccccg   300
gctcaggcgt ggagcgggccc cacctgctgg ctgaggtgat cgagaacttg gagtgtgacc   360
ctaggcacta ccagcagcgc acgtcacct tcgccctcag ggctgacgac cccctgctca   420
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agctcttgca ggag

434

<210> 386

<211> 416

<212> DNA

<213> Homo sapiens

<400> 386

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agggttggcc tcctcacccc aacttgggaa accctctggg gccatcccag ctccagagcc 180
ccttgtgggg tcagttagac ctattgttg ccacattaca gccagtgcG tctccctgac 240
aagcctgtac ccagccggt cagccacag cactgtccta tgaaccttc tgcacgccat 300
tctccacctc agtatctgt ttgggggaac ccaacctgcg acagtgttc tgtgtgttt 360
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<210> 387

<211> 477

<212> DNA

<213> Homo sapiens

<400> 387

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tgaacagtag taatattcta tcatagagta ttagccctg caagtttca gggcgtctt 180
tccgacttca gttttgtga taaagaatgt gaacagtgt tagatgttct cagtattca 240
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aatacgagag aaaagagagt ggtttccgt tgcagctaca cagctgtgtg catcgacgtt 360
ctctgggggt gtgtgccaag cgaacccag ggggtgaattg gattcttga gagaccaaag 420
cctgtaactg tccagcttct aattcaaaa cgggtccatt agggcttctg tgtgtta 477

<210> 388

<211> 548

<212> DNA

<213> Homo sapiens

<400> 388

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gagagccgct gataggtag gtctcattg gagtgttgt ggaaaggaaa ctgaaggtaa 180
ttgaatagaa tacgcctgca ttaccagcc ccagcaacac aaagaattt taatcacacg 240
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tttaactgg aaattttat gtgagtttc ctttgggtc atggaactgt ggttgccaag 420
gtatttaaaa gggcttccct gcctccttct ctttgattta ttaattga ttgggctat 480
aaaatatcat tttaggtt tattcttta gcaggttag ttaaagacc tccactgaac 540
tgggtttg 548

<210> 389

<211> 492

<212> DNA

<213> Homo sapiens

<400> 389

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 ctgacaact gggccaccaa agaactgaa ctccaccttt taggatttga gctgttctgg 180
 aacacattgc tgcactttgg aaagtcaaaa tcaagtgccg gtggcgccct tccatagag 240
 aatttgccca gctttgcttt aaaagatgct ttgttttta tatacacata atcaataggt 300
 ccaatctgct ctcaaggcct tggctctggt gggattcctt caccaattac ttaattaaa 360
 aatggctgca actgtaagaa cccttgctg atatatttgc aactatgctc ccatttaca 420
 atgtaccttc taatgctcag ttgccagggt ccaatgcaaa ggtggcgtgg actcccttg 480
 tgtgggtggg gt 492

<210> 390
 <211> 354
 <212> DNA
 <213> Homo sapiens
 <400> 390

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 gtagatgcc agttaaatt ccttagaaat tggatgagcc ttgagattgc ttctaactg 180
 ggacatgaca ttttctagc tcttatcaag aataacaact tccactttt tttaaactgc 240
 acttttgact tttttatgg tataaaaaca ataattata aacataaaag ctattgtgt 300
 ttttagact ttgatatta ttgatactg tacaacttt attaatcaa gatg 354

<210> 391
 <211> 537
 <212> DNA
 <213> Homo sapiens
 <400> 391

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 ggaactgccg gaggaagatc tggcgtcaca tggctcccag gaaagtgtg tgcctatcc 120
 ccactgatac catctgattc cccgatgcct gtgcctgttc cacctggacg gtggccccct 180
 cagcctggca gcctctggac agagaggaag gaaggattgg aaaagtcccc gcagcacagc 240
 gacggtggga agatgcctta cgtctgatct tgatgggggc actggcctgg agcctgggcc 300
 cacctgcttc tgggggggtg gggagcaggc cagatggagg tgggtgtgcc aggaagaaat 360
 ggagcgatga ctgactgtgg ggtgggcccc ggattccac atcttggtga agttgccct 420
 ggggaaggga gctgggggca gtggcgccag ttccctcca tggctcccc gctggcaatg 480
 tggtaagct gagtttctgt ccaatgagca ggaagattct gagacattc gcctgag 537

<210> 392
 <211> 258
 <212> DNA
 <213> Homo sapiens
 <400> 392

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 agggggtggc agccccgcgc cgcctccgcc gtggcgccga ccacgatgtg ggctctgagc 120
 tggccctga gggcgtgctg gggcgctgc tgcgtgtgaa acgcctagag accccggcgc 180
 cccaggtgcc tgcacgccgc ctcttgccac cctgagcact gcccgatcc cgtgcacct 240
 gggaccaga agtgcccc 258

<210> 393
 <211> 513

<212> DNA

<213> Homo sapiens

<400> 393

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gggcctgggg cactgctcgc tgctcccagg aaggggggtg cgtgacaggc aggaacctgc   180
gaagtccaga gtccaggggt gagcgcacca gcctcagcca gagcagccac gacagccaca   240
gtgtgtgcac tcgatgatgc ggccctgcaa cggaggagga cagtgagacg atgccactgc   300
gccacgctcg cccctgcaca ctacatatg tggcaaccct cccacgaagg acctgccacc   360
atgccatata gggcacacac tcagaaacct ttccttgaca gctctggaca gggaaaattt   420
ggctccctca tgaaggtaga accagctgct gttgacaccg aggttacatc tgtatgtcta   480
tttataatat gttctgcaaa tccaacacac gtt                                     513
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<210> 394

<211> 402

<212> DNA

<213> Homo sapiens

<400> 394

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ccaacagttt gaaaaggag agctcaattc ccagcgtcac ccatggctt gtgtgcctg   180
ctacgcattg acttggatct ccaggagtcc cctgcacata cttctccat cgtgtcagct   240
gtgtttctct tgattccgtg acaccgggtt tattagtcca aaagtgtgac acctttctg   300
ggcaaggaac agcccttta aggagcaaat cacttctgtc acagtattta tggtaatatg   360
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<210> 395

<211> 518

<212> DNA

<213> Homo sapiens

<400> 395

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agatcgagca ggtgaacgag cgggtcctga acaggctcca tcaggtgcag aggataactc   120
ggaggctgca cgaggaacgg aggttctca tgagagtgtg ggactcctac ggggatgact   180
accgggccag ccagttcacc attgtgtgagg aggatgaggg cagccagggc acggatgccc   240
ccacccagg caatgcggag aatgagctc cagagaaaga gacactgtcc ccgccagaa   300
ggactcctgc acccccagaa cccggcagcc cagccccgg tgaggggccc agtgggcgga   360
agaggcgggc agtgccacgg gatggacgcc gagcaggaaa tgcgctgact ccagagctgg   420
ccccggtgca gattaagggt gaggaagact ttggcttga agcagatgag gccctggatt   480
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<210> 396

<211> 444

<212> DNA

<213> Homo sapiens

<400> 396

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cgtcgagtg gcacagaatg atgacaggtg gaaatttga ctcccaggga gaccctctc   120
ccggtgtgcc gctgcctctc tcggaccca cgcgccagga gaccctccc ccagatctc   180
ccccgtggc taattcgggt tccacgggtt tctctgccg agggagtggg cgtggaggag   240
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gtccacccc ctgggggccc gcgtgggatg ccgggatcgc ccctccggtc ctgccacaag 300
acgagggggc atggcctctg cgagtcactc tgctacaatc cagcttgtaa tccgcccaaa 360
agcggcagcc aatcggagcg cgaggacgtg gtctggaggt accgccgaag atctgggacc 420
actcagggca tcagggggcg tggg 444

<210> 397

<211> 414

<212> DNA

<213> Homo sapiens

<400> 397

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ctacccccac tgccccgagt gtcgggcagc gatgtacata tggagggtggg gtggacaggg 120
tgctgtgccc cttcagaggg agtgcagggc ttgggggtggg ctagtctctg ctcctagggc 180
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tgtacagggc tgggaaaggc tgtgtgaggg gagagaaggg agagggtggg cctgtgtgg 360
acaatggcat actctcttc agccctagga ggagggtcc taacagtga actt 414

<210> 398

<211> 480

<212> DNA

<213> Homo sapiens

<400> 398

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gtgggcactt ccacatcctc tgggcctctg gcagttccca gggactgtt tcacctctgc 120
tgtctctggg gtcagctgct gtcacagc tgcccgtag catgtggcca ggggtgcagg 180
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ccacgtgcc ccatctgcc tgctgttcca gttctgttca agggccttgg gggtgtggcc 360
cccaccaggc cttctagagc agcaccagtc tcagggccct gggaccagct gcctacttc 420
ccaggttgt agccaggaga agggggcatc acagagctga tggccaata aggggggtgt 480

<210> 399

<211> 533

<212> DNA

<213> Homo sapiens

<400> 399

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cccagacttg gagagaccg tctgtgtta atacttccat cctcttctt ccaaagagc 120
agatcccaag gcatttactc ctgggtctg tctcgctta tctgtcgccc ctccagcgc 180
tgagagcctc cctgggtgtg cagcagcact gtgtccagg ctctgtctg aacaccgcag 240
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ggagggccag ctgaggggaa gttgtggtg agtttcttt tctccattc tagcatatgg 360
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gatgattcta attgttagaa attctaattg ttagaatcc ttcctataa tgaatgaatt 480
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<210> 400

<211> 509

<212> DNA

<213> Homo sapiens

<400> 400

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gacttcgtaa ttcacgggat catccatggg gtcacccatg acgtggagct gcaggagtct  180
gtcatcactg tgggtggccgc ccgtgtctc cgccagacac cgccgctgtt ccaggcgggg  240
cgatccgggg accaggggct gacctccatt cgtacccac tgcgctgttg cgtccacccg  300
ggcccaggca cttctctt catgggcttg agccgcttg gggaggcccg gctgggctgt  360
gccccacgat tccaggagt ccgccgtgcc tacgaggctg cccgtgctgc ccacctccac  420
ccctcgagg tggcgctgca ctgaggggct ggggtgctgg gaggggctgg taggaggag  480
ggtgggcccc ctgcttgga ggtgatggg                               509

```

<210> 401

<211> 481

<212> DNA

<213> Homo sapiens

<400> 401

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atgggttcag gccaaagtcgg tgaagatgga tgttgcaaa ataggaggat accctcattt  120
gctgaatggg ggacctgtc tgaacctgcc caggggccag gcctgtcca ggtaaactg   180
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cccacctttt cctggatggg tgaaggcaagc caggagagca agcagtgttg tctcacggg   300
aggaggactg agcgactggg aaaactcggc tctacatctc acccagaacg gcttttagaa  360
acaccacagc tggagagtcc tggctgagcc ttgggagttt cagctctttg gcgggggtgcc  420
caggtgccat gcgatcagcg aagcctgcga gttggcagga ctctgaggtt tctgcagac   480
c

```

<210> 402

<211> 481

<212> DNA

<213> Homo sapiens

<400> 402

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cagtggcttc cagcagagt gacctgggat ttctgtcatg ggtgtccctc tgtactcaga   60
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gctgaatggg ggacctgtc tgaacctgcc caggggccag gcctgtcca ggtaaactg   180
gacggaaggc ccaggtctca gtttcttca accaggagag gccgctgcct agagcccctc  240
cccacctttt cctggatggg tgaaggcaagc caggagagca agcagtgttg tctcacggg   300
aggaggactg agcgactggg aaaactcggc tctacatctc acccagaacg gcttttagaa  360
acaccacagc tggagagtcc tggctgagcc ttgggagttt cagctctttg gcgggggtgcc  420
caggtgccat gcgatcagcg aagcctgcga gttggcagga ctctgaggtt tctgcagac   480
c

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<210> 403

<211> 534

<212> DNA

<213> Homo sapiens

<400> 403

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agcatactat gcagcgttg gaactaggcc acctattaat atggaagaac tggatgaatc   60
ataccagaaa gtaattgaac tcttctctgt atgcactaat gaagacccta aagatcgcc  120
ttctgtgca cacattgttg aagctctgga aacagatgtc tagtgatcat ctcagtgaa  180

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gtgtggcttg cgtaaataac tgtttattcc aaaatattta catagtact atcagtagtt 240
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 atttctaata tgaaatatgc ttatattggc tataagcact tggaattgta ctgggttttc 360
 tgtaaagtt tagaaactag ctacataagt actttgatac tgctcatgct gacttaaac 420
 actagcagta aaacgctgta aactgtaaca ttaaattgaa tgaccattac ttttattaat 480
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<210> 404

<211> 213

<212> DNA

<213> Homo sapiens

<400> 404

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 ccgaggactc ggacgtgttc gaggaggaca cgcacctgtg agcgcagcga ggcgcaggcc 180
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<210> 405

<211> 406

<212> DNA

<213> Homo sapiens

<400> 405

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 cgtgcgccgt gggcctctac atggggcagc tggagctgga cgtggagctg gtgcccagg 360
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<210> 406

<211> 432

<212> DNA

<213> Homo sapiens

<400> 406

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 aactgtgchg ggagggtgaca acagagcaaa gcagcgagg ggtcagggag gtggagacac 180
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 aatcttttac cacttctggc ctggctccag aactttgttc tagattcctt aaaagtcggt 360
 agctgatgtc aaactcaatt gagcagtagc ttgatccct tggctctgggg gtcgaaggaa 420
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<210> 407

<211> 472

<212> DNA

<213> Homo sapiens

<400> 407

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 agtttgaatg tttttcata tgaaaaagag gcttttattc tttccatag ttttagacatc 240
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 atatgtccat taagaaacat gtagtttttt tttagaatgt aataaccagcagg tggttactg 360
 tttttcttaa tctcttttaa aaaaacttta gaagaatctt ttaggaacta atatctcttg 420
 ttctgaagaa acatttatct gacgttcagc agtttctaca gttttacttc ag 472

<210> 408

<211> 519

<212> DNA

<213> Homo sapiens

<400> 408

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 aggggaagctg agccccaccc gctgtgggag taccatgcc gcagcctctc cgagccctgg 180
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 ctgaccccg agtgacgct cagcactggc ctctggagc ctgcagacc cgaggggggc 360
 tgctgctgga acccccactg caagcaggcc gtctacttct tcagccctgc ccagatccc 420
 agagcactgc tgggtggccc acggactgtc agctatgcag tggagtcca cccgacaca 480
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<210> 409

<211> 469

<212> DNA

<213> Homo sapiens

<400> 409

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 ggacaccttg ccatcaaac cagtttgcc cagcctggtt gggtagctt gtgggagcca 180
 cttacagct ctgggtccct gttttacat cctgggagca aggcctgca gctccacgag 240
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 caaggctcag catcttgata ttttgacag attcctccca agtctggtc tgggaggtat 360
 gtacctatct caaatgtcc caagataaat tcatccttca ggaaatggaa atgaactgc 420
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<210> 410

<211> 495

<212> DNA

<213> Homo sapiens

<400> 410

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 tatgccaggc gcctgggagg agcttgggcc cgacggagcc actctgtgca tggggggctg 180
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 tgatggacgg gcagcttct gtgtgctcca agggatgagc ctctggggc agagggccg 300
 gggccggcc ctggcctggg agtccctccc tggttttat tctcagtagc tcaggctccc 360
 ctgtgtactt ggaggggcag ggagccctt cctcggttct ggcctccaga ccagggttaag 420
 ggcaggcccc tccaacaggt gctcacagc accgaggcag gggctgcagc caccactgg 480

gagtcttggt ttat

495

<210> 411

<211> 349

<212> DNA

<213> Homo sapiens

<400> 411

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gccccggagc agggctgtga cattggctgg tggagcacc ttctgtgtt ctcccttgt 120
tccagcgccg cgatggtgag atcactgttc caagcagggg gacggctcgc gataggacaa 180
agagagcagg acctccagac tctggggacc ctgcagacct tgacaattg cctgactcat 240
tctgacctc ttgtcattt ggctgaagg ctacaaattc agggtcagct gtatgcacta 300
agtcaataa tgaatttctt ctccctctc gcaaccgacc aaaattttg 349

<210> 412

<211> 562

<212> DNA

<213> Homo sapiens

<400> 412

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tctgggactg ctctggccg cggcgctggc cggcgctcgc ctcttctgg tccacgtgcg 180
ccgccgtggc cactcccagg atgctgggtc tcgcttctg gctgggacc cggagccgtc 240
agtccacgca ctcccgatg cactcaacaa cctaaggacg caggagggtt ccggggatgg 300
tccgagctcg tccgtagatt ggaatcgccc tgaagatga gacctcaag ggatttatgt 360
catatctgct ccttccatct acgctcgga ggtagcgacg cccctttcc ccccgctaca 420
cactgggcgc gctgggcaga ggcagacct gcttttccc tacccttct cgattctgtc 480
cgtgaaatga attgggtaga gtctctggaa ggtttaagc ccattttcag ttctaacta 540
ctttacctt atttgcac cc 562

<210> 413

<211> 458

<212> DNA

<213> Homo sapiens

<400> 413

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acagagaaag gaatctgtag ttcagcactt gatccatctg tgtgaggaaa agcgtgcaag 120
tatcagtgat gctgccctgt tagacatcat ttatatcaa ttcatcagc accagaaagt 180
ttgggatgtt tticagatga gtaaaggacc aggtgaagat gttgacctt ttgatatgaa 240
acaatttaaa aattcgttca agaaaattct tcagagagca ttaaaaaatg tgacagtcag 300
cttcagagaa actgaggaga atgcagtctg gattcgaatt gcctggggaa cacagtacac 360
aaagcacaac cagtacaaac ctacctacgt ggtgtactac tcccagactc cgtacgcctt 420
cacgtcctcc tccatgctga ggcgaatac accgcttc 458

<210> 414

<211> 560

<212> DNA

<213> Homo sapiens

<400> 414

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tcagcgtgc tttgtggag atcaaaacca ccaagttcac aaagaagggt cagattgacc 120
 cctacctgga agattctctg tgtcatatct gcagttctca gcctggctct ttcttctgtc 180
 gagatcaggt ctgcttcaaa tacttctgcc ggagctgctg gcactggcgg cacagcatgg 240
 agggcctgcg ccaccacagc cccctgatgc ggaaccagaa gaaccgagat tccagctaga 300
 ggagctggcc ttgcccagtg gcctgtggcg cccaaagctg gcaggtcagg caagcagcct 360
 gcaccaccct gccactggcg accagggagc tggcttccca aggacaaggg aaaattgtag 420
 tcacctttgc acttgctgaa tctgtctttg tttctgact aattaatgca cattgagttt 480
 tgtcaggttt tgttttcagg ggggtgtacca agggcaagga ccctctggct taccctccaa 540
 gcgactctgt agttttccca 560

<210> 415

<211> 443

<212> DNA

<213> Homo sapiens

<400> 415

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 cctatctcat cgaccacac acccagcggg aggagccttt caacgaacac tggcaaaccg 180
 tctactcact ctgccatccc tgccacatcc actatgacct cgtgggcaag tacgagacac 240
 tggaaagagga ttctaattac gtctgcagc tggcaggagt gggcagctac ctgaagtcc 300
 ccacctatgc aaagtctacg agaactactg atgaaatgac cacagaattc ttccagaaca 360
 tcagctcaga gcaccaaacg cagctgtacg aagtctacaa actcgatttt ttaatgtca 420
 attactcagt gccaagctac ctg 443

<210> 416

<211> 357

<212> DNA

<213> Homo sapiens

<400> 416

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 atcctttctg ttccatccat tcgtgaggaa gcaagagcaa tgggaatgga agacatccta 120
 cgctgcttca tcaaagaagg caatgtctgaa atgatccgcc agatagaatt catcatcaag 180
 cagctaaatt ccgaagagct accagatggg gttcttgaat ctgatgatga tgaagatgaa 240
 gatgatgaag aggacatga catcatggaa gccgatctgg acaaagacga actgatccag 300
 cccagcttg gagaactctc aggagagaag cttctgacca cagagtacct ggggatc 357

<210> 417

<211> 487

<212> DNA

<213> Homo sapiens

<400> 417

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 aacttcttaa agagcatgct acaaaactac taggctatct ccctaaagga gtatttaaaa 180
 aagaggatga tattgatctg cttgggtgaag agttcaggaa agtatatcaa caaaggagt 240
 aaatttgta agagaaatga tatcatcaaa attgggtaaa gcatagattt ttgtatgtt 300
 accactagat gtcagcataa cttttgtttt acagctcagt ggcattaggt atccattgtc 360
 tgtttggatt ttgtaaatca tcaatgaatt tcataacttg taaacaatta tcagatacaa 420
 attaatatta atcaagctgt tatttttgta ctgataaatt caaaatccga ttctacaac 480
 actacag 487

<210> 418

<211> 523

<212> DNA

<213> Homo sapiens

<400> 418

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gaatcggaca tgtccaaacc accgtgttac gaagaggcgg tgctgatggc agagccgccg   60
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ttcctgagtc gccgcgacag cgcggagaag caggagcagc cgcctcccag ctacaagccg   180
ctcttcctgg accgggggcta cacctcggcg ctgcacctgc ccagcgcgcc tcggcccgcg   240
ccgccctgcc cagccctctg cctgcaggcc gaccgtggcc gccgggtctt cccagctgg   300
accgactcag agctcagcag ccgcgagccc ctggagcacg gagcttggcg tctgccggtc   360
tccatccctt tttcggggag gactacagcc gtatagaggg gcgcccggcg cccggggccc   420
caccggcgga ctctggcct gactcggggg cttttaaat gcttccttg actcggggga   480
ggggcggggg gagggaggga tttctatcc cgtttgttac att                    523
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<210> 419

<211> 506

<212> DNA

<213> Homo sapiens

<400> 419

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catttacatt tgaccgttgg ctttagtgaa tgtccatatt taattttta aggcaccatt   120
acacagtta tctacattt atcacatttc ttaaagtgtt aagattctat ggctcatttc   180
tatgtatttt tctacttta caaaataacc tgaacagta tagattttgt aacacttaat   240
ttgagcagct ttttattac attgaattat ataaagtgca tgttaccta gaaaaattag   300
tatttgctgc ttactctt tgcaaaacat ttgtgtaat gaatggatt gtattccaa   360
tatgtatctt gactgcattt tgtaatatct actgcttat tctaattct gctttaaagt   420
actgaactgg gcatgaaaca ttaaaatatt aatccagaaa ctgtataaac tggatgttgc   480
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<210> 420

<211> 504

<212> DNA

<213> Homo sapiens

<400> 420

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actcggcct ctgggatgga gagcaataca tcatactct tggagaattt agcgacggcg   60
cctgtgaacc agatccaaga acaatttct gataatttg tggtgatttt ctcaaaaaca   120
tctgttctt actgtacaat ggcaaaaaag ctttccatg acatgaatgt taactataaa   180
gtggtggaac tggacctgct tgaatatgga aaccagttcc aagatgctct ttacaaaatg   240
actggtgaaa gaactgttcc aagaatattt gtcaatgga cttttattgg aggtgcaact   300
gacactcata ggcttcacaa agaaggaaaa ttgctccac tagttcatca gtgtattta   360
aaaaaaagta agaggaaaga atttcagtga tgtttatact aataagttg ctagtacagt   420
gtcagttatt taaagtggta atgcccgata atgtcttta aatgtttgag gatgttttaa   480
atacatgcat tgtttcacg aaga                    504
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<210> 421

<211> 472

<212> DNA

<213> Homo sapiens

<400> 421

gactttgatt ggtagcatcc acgccctccc tgggctcata agccagacca tcaggcagca 60
gcagagagat ttcattgagg ctcatgga gagctacgac aagcacgtca ctacaatgc 120
tgagcgggcc cggctcctcg ccaggaggcg gcggctctct tccacagcac caccaacttc 180
atcagagagt agctagaaga gaataagta accacaaaat aagactttt gccatcatat 240
ggcaatatt ttagcttta ttgtaaagcc cctatgggtc taatcagcgt tatccgggtt 300
ctgatgtcag aatcctggga acctgaacac taagttttag gccaaaatga gtgaaaactc 360
tttttttc ttcatagtc acagggaatg cacctattat tgctatatag attgttcctc 420
ctgtaatttc actaactttt tattcatgca ctcaacaa actttactac ta 472

<210> 422

<21 1> 475

<212> DNA

<213> Homo sapiens

<400> 422

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ggagtcatac acgaagggcg tgtggccatc gtgtcagcag agagagtctc tgtacacagc 120
cccgatgaac ctgaggagtg gattcatagc cgaaggggtg gtggccaggc tgcagagctg 180
cgtgccgttt gtgtccgagc atcacgtgtg gctccagccc ttatttctgc cagtgtagac 240
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ggcctcattc tgtatcagtc cagtgtgttc ctgtcatagt ttgtgtctcc caggcaggcc 360
atggtagggg cctgcagggg gccattgggg agcacagggc caggctgggg tgaggagagc 420
tcccctgttt tctgtttaat tgatgagcct gggaaaggag tgtgttctgc ctgcc 475

<210> 423

<21 1> 485

<212> DNA

<213> Homo sapiens

<400> 423

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cagcagcagc atttgtgaca gcccaggcg gagaacaccg aacacccagt gaaggtgagg 120
ggatcagcac ggcggggcca cccacgcacc cacgcgtgg aatgagactc agccacaagg 180
agggtcgaag ctctgacca ggccacagt cggatgcacc ttgaggatgt cacgctcagt 240
gagagacacc agacacagaa gggtagctg tgatccact tctatgaaat gtccaggaca 300
gaccaatcca cagaatcagg gagaggattc gtgggtgccg ggactgggga gggggacctg 360
ggggtgacta ggtgacataa tggggacagg gctgcctct gggatgag aatgttctgg 420
aatcagatgg gatggctgca cggcgtggtg aaggtactga acgccacctc actgtaagac 480
ggtag 485

<210> 424

<21 1> 538

<212> DNA

<213> Homo sapiens

<400> 424

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ccccgggagc ctccctgtct cagaccggtc taagcaagcg gctggaaatg caccactcct 120
cttctacgg ggttgactat aagaggagct accccacgaa ctgctcacg agaagccacc 180
aggccaccac tctcaaaaga aacaacacta actctccaa ttctctcac ctctccagaa 240
accagagctt tggcagggga gacaaccgc cgcccgcgcc gcagaggggtg gactccatcc 300
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acgcctacaa ctactgaca aggtcggggc tgaagcgtac gccctcgcta aagccggacg 420
 tccccccaa accatccttt gctccccctt ccacatccat gaagcccaat gatgcgtgta 480
 cataatccca ggggggagggg gtcagggtgc gaaccagcag gcaaggcgag gtgcccgc 538

<210> 425

<21 1> 381

<212> DNA

<213> Homo sapiens

<400> 425

caaacggaac ttgccgcgtc gaggactgtc gggctacagc atgctggcca tagggattgg 60
 aacctgac tacgggact ggagcataat gaagtggaa cgtgagcgca ggcgcctaca 120
 aatcgaggac ttcgaggctc gcatcgcgt gttgccactg ttacaggcag aaaccgaccg 180
 gaggacctg cagatgcttc gggagaacct ggaggaggag gccatcatca tgaaggacgt 240
 gcccactgg aaggtggggg agtctgtgt ccacacaacc cgctgggtgc ccccttgat 300
 cggggagctg tacgggctgc gcaccacaga ggaggctctc catgccagcc acggcttcat 360
 gtgttacacg taggccctgt g 381

<210> 426

<21 1> 457

<212> DNA

<213> Homo sapiens

<400> 426

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 ctttgaagag acagccctgg ctgcttctc ttctactgc cctggaatgg gtgtgctct 120
 taggatgtat cccctcaaac ctacctgtg gttctgtgc tccccact ctcttctcat 180
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 gaaggaaacc tactattagc ccccgctcct gcacgccgtg gagcatcagg ccacaGactc 300
 tgcacccgac acccaccctc tcttgtgta ctacgtctt ggagtttga actctaccct 360
 ggtaggaaag caccgcagca tgtggggaag caagacgtcc tggaatgaag catgtagctc 420
 tatgggggga ggggggaggg ctgcctgaaa accatcc 457

<210> 427

<21 1> 478

<212> DNA

<213> Homo sapiens

<400> 427

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 ctcgagaagc cccagccaca ggacctagcc ctacgaccc ccagaagatg gacggggaac 120
 ttggacgctt gttccccca tcattggggc taccaccagg ccccgagcca gctgcctcca 180
 gctgcccag tccactccag cccagctgg cctgtcctc ctgcacctc atcaatgcc 240
 cagaccgccc tggtgtgag atgtgtagca cccagaggcc ctgcacttg gaccccttg 300
 ctgcagctc cacctagcag ccaccagagg ttacaagggg agagtggccc ttcctcaca 360
 agtccgacat ctccaggccc cactgaact cgggggacct ctactgactg cttgctggga 420
 cagtcaccag ggttgggggg aaggccaca aatgaaacc attaaagacc ctaagag 478

<210> 428

<21 1> 501

<212> DNA

<213> Homo sapiens

<400> 428

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catgttggcc aggctagtct cgaactcctg acctcagggtg atccacctgc ctggcctcc 120
caaagcactg ggattacaag catgagccac tgtgccccagc ctgttccact gacatttctt 180
agacattcag caaaaccccc accttaacct cttttcttc ttgagggttg gtctgtcccc 240
cacctccacc ctcccacccc ctggaagagg aagggcccg gcatcagtgg ctagtccaaa 300
taaaatatgg gcttggggat ggaatgggtg gtggttaagt cacagagtgt agttagatcc 360
caactcccat gacctctggc ttcaagtgtg ggtggggcag ggcagatgaa agggcttcag 420
tggaacctc tgagagcatt ttctgttc ccctatcaac cgccccagt gataacatct 480
gtgaagccag ccattactca a 501

<210> 429

<21 1> 474

<212> DNA

<213> Homo sapiens

<400> 429

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caaaacaate cctcccgtgc ttatgatgg cagcaggggc tggggagcct ctgagggact 180
ctttcattct gcagttgtct ggaagcctgg gtggcgtcat gagctgaagg atcatgcttt 240
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acttcattgc ctgctttgg atgtgcttc tgccataaag actgattttt gttcgttctg 360
agccttcaag gaatttgttt ttacaactg gaatatgctc ctgtgtgtgt taacagatca 420
tggatgtttt atgtttttac tgatcattta aagagtttga cctcagagct ccag 474

<210> 430

<21 1> 316

<212> DNA

<213> Homo sapiens

<400> 430

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aggagagctg ggaacggatc ccttaggttc aggaagcttc tgtgcaagct gcgaggatgg 120
cttgggccga aggggttgctc tgcccgcgc gctagctgtg agctgagcaa agccctgggc 180
tcacagcacc ccaaagcct gtggcttcag tcctgcgtct gcaccacca atcaaaagga 240
tcgtttgttt ttgttttaa agaaagggtga gattggcttg gttcttcattg agcacatttg 300
atatagctct ttttct 316

<210> 431

<21 1> 482

<212> DNA

<213> Homo sapiens

<400> 431

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cattgttaat ctaagaataa aaactctgac tttaatacgg tttaactaag ttcaacctt 180
ctaattaggt aggcctctag gtattctgca gatcactgct ggtcttgata gccattaata 240
tatgtttgta ttatgttatt ttcaactaa atcgacgttg gaaaaaaac atatttaata 300
ttatgccctt ggaatctgta ctgcatcact agcacttggt atgcaataga acacttcgcc 360
tgtactgaaa gggccaagag taaatgccct gttttgtttt ttgtttgtt ttgttttgc 420
ttttgttaa aacatgtcta tagagtggc agttaatgct gaatttgta aataccctt 480
cc 482

<210> 432
 <211> 511
 <212> DNA
 <213> Homo sapiens

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 <223> n is a, c, g, or t
 <220>
 <221> misc_feature
 <222> (34)..(34)
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 <222> (37)..(37)
 <223> n is a, c, g, or t
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 <221> misc_feature
 <222> (73)..(73)
 <223> n is a, c, g, or t
 <220>
 <221> misc_feature
 <222> (284)..(285)
 <223> n is a, c, g, or t
 <400> 432

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tcctgcctt ggnntttctc cctctctcat tctctctcc ctttctctca ctgaaggctg  120
tgatttgctt tcaatgtgac aacactatga tgtcatttgg aaggatttgc caggacagac  180
tgattctgag tcttgggtgc cgtatgtgta tgcggcagtg ttgtcaggcg atcttgttg  240
aagctctatg ttgccataat taccatcaag tacacactgt tggnncaaaa ggctaacacc  300
tgactttaga aaatgctgat ttgagaacaa aaggaaaggc ctttttcac tgctaaagt  360
ggggctcact tgatacctt gcggtcatgt ctgtgtctga tgagttaga atctctggat  420
gtgcactgtc agtcatgtgt ccaccaggcc tcgaatatca tatgggaaat gtcatagtta  480
aaaacgtaca gccaggcccg tgtgctgtta a                               511
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<210> 433
 <211> 445
 <212> DNA
 <213> Homo sapiens
 <400> 433

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gcggcgtgcc atctcggtc ggccttgctg agagcctccg ccctggcttt ctccctgtct  180
ggtttcagtg gctcacgttg gtgtacaca gctagaatag atatatttag agagagagat  240
attttaaga caaagccac aattagctgt ctttaacac cgcagaaccc cctcccagaa  300
gaagagcgat cctcgggacg gtccgggcgg gcaccctcag ccgggctctt tgcagaagca  360
gcaccgctga ctgtgggccc ggccctcaga tgtgtacata tacggctatt tcctatttta  420
ctgtcttca gatttagtac ttgta                               445
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<210> 434

<211> 443

<212> DNA

<213> Hctiao sapiens

<400> 434

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agcttgctcg gtaagtggct tctctgtgaa ttgcctgtaa cacatagtgg cttctccgcc   60
cttghtaagggt gttcagtaga gctaaataaa tgtaatagcc aaacccact ctgttggttag  120
caattggcag ccctatttca gttttttt tcttctgttt tcttctttc ttttttaaa   180
cagtaaacct taacagatgc gttcagcaga ctggtttgca gtgaatttc atttcttcc   240
ttatcacccc ctgttgtaa aaagcccagc acttgaattg ttattacttt aaatgttctg   300
tatttgtatc tgttttatt agccaattag tgggatttta tgccagtgt taaaatgagc   360
attgatgtac ccattttta aaaaagcaag cacagccttt gcccaaaact gtcaccta   420
cgtttgtcat tccagttga gtt                                     443
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<210> 435

<211> 536

<212> DNA

<213> Homo sapiens

<400> 435

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accccaggcg cccgcgctgc acctgcgact gtcgccgccc cgtcgcagt cggaccaact  120
gctggcagaa tcttcgtccg cacggcccca gctggagttg cacttgcggc cgcaagccgc  180
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ttgctgccgt ctgcacacgg tccgcgcgtc gctggaagac ctgggctggg ccgattgggt  300
gctgtcgcca cgggaggtgc aagtgacat gtgcatcggc gcgtgcccga gccagttccg  360
ggcggcaaac atgcacgcgc agatcaagac gagcctgcac cgctgaagc ccgacacggt  420
gccagcgccc tctgcgtgc ccgccagcta caatcccatg gtgctcattc aaaagaccga  480
caccgggggtg tcgtccaga cctatgatga ctgttagcG aaagactgcc actgca   536
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<210> 436

<211> 464

<212> DNA

<213> Homo sapiens

<400> 436

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tatgaacttg cgtgggctac tgctttagc ttgggtggt ctcgaccgtt tgtggtagca   60
gtatgatgaca tcatgtttca gaaacctgtt gaggttggt cattgctctt tctttttca  120
caggatatgct ttactcagaa taattatatt caagtcagag tacacagtga agtggcctcc  180
ctgcaggaga agcagcatal aaccaccaat gtcttcatt tcacgttcat gtcggaaaaa  240
gaagtgccat tggttttccc aaaaacatat ggagagtcca tgttgtactt agatgggcag  300
cggcatttca actccatgag tggcccagcg accttgagaa aggactacct tgtggagccc  360
taagaacacc acatttgttg aaaactagca ctctaccac agtgacgtgg tatctgatga  420
agacctgatc gagtgtattg atttagtat tgcttcgtgt cctc                                     464
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<210> 437

<211> 533

<212> DNA

<213> Homo sapiens

<400> 437

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gcgcagcatg gaggactttg tcacttgggt ggactcgtcc aagatcaagc ggcacgtgct   60
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agagtacaat gaggagcgcg atgacttcga tctggaagcc tagcggatct cccactttgc 120
 atggctgtct ttacagatg ggaaaactga ggcctgatgc tggagattct atgagggtgc 180
 tctcctcaag ggtatcagac ggtcgtaggt tcttaagaat ttgattcatc agtggcaggc 240
 catgcataga gccacgggag gtgcgtcctt gtttccagg aaatgttctt agaacttgga 300
 ctactgatta ttaattgact gtgccttggg aaacagtggg aagtaacttg gtgcagcact 360
 ggggtattgt tggactgggt caattcggtt aactcgaatt ctgtctctg gccgtggta 420
 agctgtgtac agatgatgga gagtttggcc tcaagtttt ataaactgag cgagactagt 480
 gtcaggatc tctcccttg tttaaatgtc aataaatgcc ccaactgctt tgt 533

<210> 438

<211> 502

<212> DNA

<213> Homo sapiens

<400> 438

cccaggagac acgacgagga cgaggaggac acggtgactc ggctggggccc cgacgacacg 60
 ctgccgggccc ccgagctgtc cgcagagccg gacggggcccc tcaacgtcaa cgtcttcacg 120
 tcggcggagg agctggagcg ggcgacgcgg ctggaggagc gcgaacggat cctgcgggag 180
 atctggcgca ccgggcagcc ggacctgctg ggcacaggca cgctggggccc cagccccacg 240
 gccacgggca ccttgggccc catgcactat tactgatggg ccccggtccc cgtgcaagg 300
 cgctcgggggt accggacctg cacatgagct cagagctacc ccacaccttc ggactgcctc 360
 ggccGccaca gctcccaggt gctactgggc gtggaccgcc acccctgag aggtccctt 420
 cccagctct gccagaagac cccggggggcg gggagggggc agcatgcagg gtccccactc 480
 cctctctggg gtcatgaag ag 502

<210> 439

<211> 485

<212> DNA

<213> Homo sapiens

<400> 439

ctccccctt gaaactcaag cacagctgcg aggagggcag cgaggaggga cccctctctc 60
 atggttgtct ctttccccg ctatgtcata ggtagtgag gaagcgaagg aagtgaacgc 120
 tgaatgtgac gcatttctga agagctcagc tgtaccggg catagcctgg aagccccaaag 180
 tctgttctga cttgcctgg ctgtctcctt gaccgcctc ctatgcatt gtccttgatg 240
 tccaggctgg gtcatttaaa atagagatgc aatcaggaag gttgggggac ttgggactgt 300
 ggctgaattg agacctgtct gatgtattca tgcagcacc tgagtcacag ccaggtgcc 360
 cggaagcagc ctcttcgcat aggcagtgat ttgcgattac tttaaagctc acctttttc 420
 tccccctc ttgtcgtgc tgcagcata atgatttgtt tcttcccta tgggatccat 480
 ctgtt 485

<210> 440

<211> 525

<212> DNA

<213> Homo sapiens

<400> 440

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 ctgctatgcc caggtgcgtc gggcacagct gggaaatggc cagaagatag cctgccttgt 180
 gctggccatg gggctgctgg gccccctgga ctggctgggc cccccctc agatcagcct 240
 ctctacatt tcaatttcc tcaagtacac cctctggcca tgctagtcc tgccctcgt 300
 gccctgggca gtgcacatgt tcagtggcca ggaagcacc cccatccact ctctctgact 360

tcttgtgtgc cteccittcc ttteccccc acaaagccaa cactctgtga ccaccacact 420
ccaggaggca gcccacccc ctccagccc ctaagtaggc cctcccctcc ctaaactctgc 480
ttccgacca cctggtctta gcccacaaaga tgggccttct ctctc 525

<210> 441

<211> 403

<212> DNA

<213> Homo sapiens

<400> 441

cgcaagcccc tgatgggagc agaaaattcg ggacagacca cgtagagggt ggctcccaag 60
caggtgcgga cggcaccagg ccgccaagg catcgtgcc acctgagctc cagccgcca 120
caaactgtcg catgagtggc tgcccaact gcgtgtgggt ggagtacgcg gacaggctgc 180
tgcagcactt ccaggacggg ggggagcggg ccctggctgc cctggaggag cacgtggctg 240
atgagaacct caaggccttc ctaggatgg agatccggct gcacaccagg tgcggaggct 300
gagccatccc tgctggactc cctaccgcag gacggagtcc aggacgcagc cgcagcctcc 360
ttccttcaca cccctcaca gactcctgt gtccaacggg aat 403

<210> 442

<211> 346

<212> DNA

<213> Homo sapiens

<400> 442

taggggggag atttgaccgg caggtctctg cggagggtg cttctacaac gctgactacc 60
tggcgcccg agccggctg gcaggtgaac tggcaggcca ggaagaggag gaagccctgg 120
aggggctgga ggtgatgat gtttctcc ggtctcagg gctccactc ttccgggccc 180
tagagccagg gctggtgcag aagttctccc tgcgagactg cagcccacgg ctcaagtgaag 240
aactctacca ccgtgccgc ctacgaacc tggaggggct agggggccgt gccagctgg 300
ctatggctct ctttgagcag gagcaggcca atagcactta gcccgc 346

<210> 443

<211> 378

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (146)..(146)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (220)..(220)

<223> n is a, c, g, or t

<400> 443

ggggagggca gaaagatcac acacaaggct gtcacttcat acttgaggga ttgcacagca 60
gccgggcaga ggcgtcttc acttcccaga tggggcggcg ggcagcagag acgcacctca 120
cttctagac agtgcggcag ccaggnacac ggacacctc acttcccaga cagttgggag 180
gccaggcaag cgctctcac ttccagatg gggcggctcn cgggaagcgg ggcctctcac 240
ttccagaca ggttgccag gcagagggtc tctcacttc ccagaacaat tctttatgaa 300
tttgataaag gactgaagt cactgaaag ctgctagtga tgatctggtg atatacaatt 360
tgtccagtag ccagtttg 378

<210> 444

<211> 556

<212> DNA

<213> Homo sapiens

<400> 444

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ctgtgcatgg cacggctcaa gacagtctg aaatacgtgc tgtttcttct gggtagactg   60
gtcatcgcca tgtccttgca gctggaccgc aggggcatgt ggaacatgct gggggccctgc  120
ctttttgctt tcgtgatcat ggcctccatg tgggcttacc gctgcgggca ccggcgccag   180
tgctacccca cctcgtggca gcgctgggccc ttctacctcc tgcccggcgt ctctatggcc  240
tctgtgggca tcgccatcta cacctccatg atgactagcg acaactacta ctacaccac   300
agcatctggc acatcctgct ggccgggagc gcagccttgc tgctgcggcc acctgaccag  360
cccgccgagc cctgggctg ctcgcagaaa ttcccctgcc actatcagat ctgcaagaac  420
gatcgggagg aactgtacgc agtgacgtga cactggcctg gggacagctg ctgctctgat  480
gacctcttca gccaggagct gtatcgaggg ggaggcgcct ggtccagccc tggacagatt  540
gattccagc tgaata      o                               556
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<210> 445

<211> 499

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (338)..(338)

<223> n is a, c, g, or t

<400> 445

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gtatgagctg tggccacagg tgagcaaggc aggggaactgc aatccagccc tggccgcggg  120
agggggccatc tctggccaat gctgctgtgc ctcaaggac tgacaagtta cgtaggggca  180
gaggctcgca gctagccagt gtctctcca tctggggggc gtctgtccac ttgtcacctt  240
agggtttcac tcattgtca ccttgggggt ttgctctgtg tgtttcatat ccaacggcaa  300
tacttcgagg gggacagagt cctctaata ctccaatnct gcggttttta caaacataaa  360
ggggggagacc ccaagtggag gacctgggc ctggagctcc ctcccaaact ttgtccagca  420
tccagcctgt tcctgggct cactggggag ggagttgtct tcatagcaca cccagagcca  480
gggatccctt tgtagtttt                               499
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<210> 446

<211> 462

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (352)..(352)

<223> n is a, c, g, or t

<400> 446

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agcatctttc aagctccgtt actatggcga tggccatgat gttacaatcc cacttgcttg   60
aataatcaag tgggaagggg aagcagaggg aaatggggcc atgtgaatgc agctgctctg  120
ttctccctac cctgaggaaa aaccaaaggg aagcaacagg aacttctgca actggtttt  180
```


atcggaaaga tcacctgcc tgcagatgct gttgaagggg cacaagaaat tggagctgga 240
gaagattgat gaaagtgcag gtgtgtaagg aaatagaaca gtctgctggg agtcagacct 300
ggaattctga ttccaaactc ttattactt tgggaagtca ctacgacctc cngtagccat 360
ctccagggtg acggaacca gtgtattacc tgctggaacc aaggaaacta acaatgtagg 420
ttactagtga atacccaat gggttctcca attatgcca tg 462

<210> 447

<21 1> 361

<212> DNA

<213> Homo sapiens

<400> 447

gtggacctac ctgataaata ccccttcaaa tctccatcta taggattcat gaataaaatt 60
ttccatccca acattgatga agcgtcagga actgtgtgtc tagatgtaat taatcaaact 120
tggacagctc tctatgatct taccaatata ttgagtcct tctgcctca gttattggcc 180
tattcctaacc ccatagatcc tctcaatggt gacgtgcag ccatgtacct ccaccgacca 240
gaagaatata agcagaaaat taaagagtac atccagaaat acgccacgga ggaggcgctg 300
aaagaacagg aagagggtac cggggacagc tcatcggaga gctctatgtc tgacttttcc 360
g 361

<210> 448

<21 1> 527

<212> DNA

<213> Homo sapiens

<400> 448

gatcccgcca ggcatgtgtg tgtgaatgca tgtgcaaagc tctccatcag aagggtggtg 60
tgggccctgc aggtcctacc cctcggcctt gaagctccct cgggctgcgg actctgcctc 120
ctgggtctga gcattagaac caggagaggg gtgtccctgg gcagagccag ggggtgcaaac 180
agcctgcagc catctggcct ttaagtata gtgtgtcgca ttccgggta ggaaggtagc 240
atttcaagtt caaagagagg tcaagtcatg caaccatctt tcctccagca cttttggggt 300
aaggaggaca gtttttgta tggtttaggg gaaatttca tgaaatttc accattacca 360
atagattact gatgtcatg gcaagtatc tgttcttggt attttgttt gttttgttt 420
ggtttttaa tgtaatcacc cattggtcag gccaggact ggtcacatg agctctgcta 480
gccacggccc caacgatgct tccggctctc atggattcca cagcaaa 527

<210> 449

<211> 390

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (35)..(35)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (93)..(93)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (108)..(108)

<223> n is a, c, g, or t

<220>

<221> miscfeature

<222> (187)..(189)

<223> n is a, c, g, or t

<400> 449

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ccatattgca gacatgaaaa aggttatcac aangtagttt ttccaaanct ttttctaca   120
atctggtgtg gttagaaaaa gtaatgtaat aataggaagg gataataccc aaaaaattct   180
tttaannnt gcttcaggca tgttgaacac acttggtgga tcttcagaaa cctgactaag   240
gccatgtaaa cttatagaga gctgagagta gccagaatct tcataaaata ttccactatc   300
agttcttgat tgccgacgaa tgaatggtg accttcactt tccagccca tcagtggctg   360
ttgtcactt ctctccatag ctttggcaag                               390
```

<210> 450

<211> 515

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (214)..(214)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (224)..(224)

<223> n is a, c, g, or t

<400> 450

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cctaaggcct atcagcttct atcagcccgc agtgccctgcc tgcctggcct gttggccgcc   60
accaacgcgc tgaccaatgg cgtgtgcct gccgtgcaga gcttttctg cttaccctac   120
gggcgtctgg cctaccacct ggctgtgtg ctgggcagtg ctgccaatcc cctggcctgc   180
ttcctggcca tgggtgtgct gtgcaggtcc ttgncagggc tggncggcct ctctctgctg   240
ggcgtgttct gtgggggcta cctgatggcg ctggcagtc tgagcccctg cccgcccctg   300
gtgggcacct cggcgggggt cgctctctg gtgctgtcgt ggggtgctgt tcttgccgtg   360
ttctctacg tgaagggtgc agccagctcc ctgctgcatg gcggggggccg gccggcattg   420
ctggcagccg gcgtggccat ccaggtgggc tctctgctcg gcgctgtgc tatgttccc   480
ccgaccagca tctatcacgt gttccacagc agaaa                               515
```

<210> 451

<211> 387

<212> DNA

<213> Homo sapiens

<400> 451

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gcagcgtgag ggtgcactca ggggtgtgtt agagcgtctc gtgtgtgcta gacgcacccc   60
tactcgttcc tatagaacac agaggacata gaaaccctt aaaacacaca tgggattctc   120
tggtcacagt ttgggttca ggctatgctg ctttgggcag gtggagcacc ccccgaggaa   180
gcctgcaagt ccagggcaca ggctgcctt tggaggagg gctggcccat aggtgctgct   240
ggctccccgc caccagctgg gcctcagccc tcacggcatt cctgctgagc accgtggggc   300
accaggggag caggggcgtc agggatcctg ctgccggcac ccctgtgccg ctggcatgag   360
ggcgtgtcc cactgtgaa ggatgaa                               387
```

<210> 452

<211> 449

<212> DNA

<213> Homo sapiens

<400> 452

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gtctcttaga aggacactgg tcattggatt taaaggccac ctgggtaatt tatagtgatc   60
taatctcaag aatcttctct taattacatg caaatactct ttatccaaat tagtttgcac   120
tcacaaattc tggagcttag tacttggaca tatattttgg ggggttgatg gttggagggg   180
ctttattca actcagtaca tcttaataag gaattaatgc cccccaactt gccttacaag   240
tcatatatta aaaacaatgt tggcctggca cagtggctca tgcctgtaat ctcaacactt   300
tgggaagcca agggaggagg atcacttgag cccaggagt ggagaccagc ctggataaca   360
aaggagagacc cagtttctac aaaatattta aaaattagcc aggcattgat gtgcattgct   420
gtgtctctag ctattcaggg aactgaggt                                     449
```

<210> 453

<211> 548

<212> DNA

<213> Homo sapiens

<400> 453

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gccggccctt tgcaatgaat gactcttctt gaggctggca ccaggagccc taggcaggcc   60
gccgtctccc cactcacagc cccagcaggt aagcagtgtg gacaaaccct tggggctttt   120
ttatttggag aaccgtccag catgcattct ggcccacggc ctgagcaagc tgcagccctt   180
ctgaggccat gggcttcgtt ggctaagttg ggggtcttag ccttgcattg gttgtgggca   240
tcaaatctac ctccaaaaga cccatctctg ggagccctct gggccctcgt tgccttttca   300
cttcaaaaacc tcttttttct gggagaggcc ctgaaccctg tgcgggagag ctggtctctc   360
agccctggca ggccctcagc cagcttccca gcaagacaaa gggcaccctt gtggctttgg   420
gacctaatgt gttgggggtc ccgaggtcac tgaggactgg tacctcggga acgcaagctg   480
tcagtgaac tgtcccaca gaattcacag gtctcaaagc aggaacagtg gggttgtgtc   540
tcacctga                                     548
```

<210> 454

<211> 569

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (268)..(268)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (290)..(290)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (295)..(295)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (324)..(325)

<223> n is a, c, g, or t

<400> 454

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ttgacctgct cctggctgtt ggcatgtctg cctacctcgg catggcctac gtggctgtcc   120
agggtagcag tgcccaggct cagcacttca gcctcctcta caagaccgtc cagaggctgc   180
tcgtgaaggc caagacacag tgacacagcc acccccacag cgggagcccc cgccgctcca   240
cagtcctctg ggccgagcac gagtgggnag gggaccctct tctcccgten tgcentcggg   300
ttccccgct cctccagaga cttnncaagg gcccatcacc actggcctct gggcacttgt   360
gctgagactc tgggaccagc gcagctgcca cttgtcacc atgagagaat ttggggagtg   420
cttgcctgct agccagcagg ctctgtctg ggtgccacgg ggccagcatt ttggaggag   480
cttcttctct tcttctctgg acaggtcgtc atgatggatg cactgactga ccgtctgggg   540
ctcaggctgg tgtgggatgc agccggccg                               569
```

<210> 455

<211> 516

<212> DNA

<213> Homo sapiens

<400> 455

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gtaggggtta caattcacat tccttattct gagaatttgg cccagctgt ttgccttga   60
ctccctgacc tccagagcca gggttgtgcc ttattgtccc atctgtgggc ctattctgc   120
caaagctgga ccaaggctaa ctttctaag ctccctaact tgggccagaa accaaagctg   180
agcttttaac ttctccctc tatgacacaa atgaattgag ggtaggagga ggtgtcacat   240
aacccttacc ctacctctgc caaaaagtgg gggctgtact ggggactgct cggatgatct   300
ttcttagtgc tactttttc agctgtccct gtagegacag gtctaagatc tgactgcctc   360
ctcctttctc tggectcttc ccccttccct ctctcttcca gctaggctag ctggtttgga   420
gtagaatggc aactaattct aatttttatt tattaaatat ttggggtttt ggttttaag   480
ccagaattac ggctagGacc tagcatttca gcagag                               516
```

<210> 456

<211> 334

<212> DNA

<213> Homo sapiens

<400> 456

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aattaagcat ttcttgcct cctttgcttc atcttttcac aacagctgga tagagggatc   60
agaaatgact gtgtcatggg gctcattcac tgcaaactcc cagttgcaag ctcttggct   120
cccccgagg gagcaagaat ctcatagtcc agagacacag agggcctttt agccctaatg   180
accttttga tgggactgca actcatgact atcctgatat tggaagaaaag gactttgtta   240
atcttctccc ccatagctct gctgcgtagg tctacatctt actcagaatc actacacatt   300
cctttagtct tctccaagc tccagagcca ttgg                               334
```

<210> 457

<211> 569

<212> DNA

<213> Homo sapiens

<400> 457

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gggcaggttt ggagcccatg ggaccccggt ggtctctgtc caggagcagc agaggaggct   60
gacaggccct gctccctctg ctctgggggt gctggggagc cccagctcac accctcccaa   120
tgcttatatg ctgaagctca cagaatgggc ttcttgcttg acagcaagtc aaagaatgag   180
tttaatatca aagtgtaacg ttactttcca tcccaagcc agcctgcccc ctgccccatt   240
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tcccatgagc acacttctgg ggaaggaaaa caggctcctg gccttcactc tcagcagagc 300
tttgagatg ccccaggcat gccctgagct ccttctgtgt acctgtccc acttctgagc 360
caccgctgc cctccgcac tgtggcaaa ccagttcct gcctcagcca ggtctcttc 420
cctggtttc agtcacacag agcccagcag ctttctttt cagtcacata agggcagcct 480
tgtgtccctg gccacacttc caccgccag ggtcttctc cccatcttc catccttct 540
gctgagcttc cacagagctc gtttgcaaa 569

<210> 458

<211> 467

<212> DNA

<213> Homo sapiens

<400> 458

tacctcggag ctgatgctgg gcggaaccaa cacactgggtg ctgcacaaca cgtgtgagga 60
ctcgtgctg gccgcacca tcatgctgga ctagcgctg ctgaccgagc tgtgccagcg 120
cgtgagcttc tgcactgaca tggaccccga gccgcagacc ttccaccccg tgcgttcct 180
gctcagcttc ctctcaagg cgccactagt gccgcccggc agcccgggtg tcaatgcgt 240
tttccgccag cgcagctgca tcgagaacat cctcagggcc tgcgtggggc tcccgccaca 300
gaaccacatg ctctggaac aaaaatgga gcgcccaggc cccagcctca agcgagttgg 360
acccgtggct gccacctacc ctatgttga caagaaagga ccggtaccg ctgccaccaa 420
tggctgcacc ggtgatgcca atgggcatct gcaagaggag ccccaa 467

<210> 459

<211> 254

<212> DNA

<213> Homo sapiens

<400> 459

attagctata gattccactg gccttaacaa tacaattaag tgtatacatg atatagtgca 60
cacacaaaag ccaccttaa ttattgaaat aacctgtatt cttttggaa atcatttaag 120
tttggtattg aagtactata tttttgtgc atcaatgtat tttctattt acaagcctat 180
gtaaaagtga agtgtatctt cagtgaacca tgtccaatt aagctgtaat aaaaaagtg 240
tctagtctgt caaa 254

<210> 460

<211> 338

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (95)..(95)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (99)..(99)

<223> n is a, c, g, or t

<400> 460

ctttgctga ggttttctt gaggttttt tgatgcttta taggaaacta tttttaaaa 60
aaagccattt cccaccaag gacacagtgg atgtnttnc cctgactcca gcagggaag 120
gaatgtagcc gagaggttgt gtgggctggg ctctggtgcc ctctccctg gccaggacac 180
ctctctctt gattcccttg gcacctgtc tttctgtctg ttacctgtc tcctgcctg 240

cccactctgca tcttttgcag cccactctga cttccatctg ggggctgaga ccacccttgc 300
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<210> 461
<211> 544
<212> DNA
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<223> n is a, c, g, or t
<400> 461

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tgctggaacc agttacgact gaagtcagtg tagacctgag ctgggaggga acctgttagt 120
ctccccacct cttccctgaa gagacaggca cccctcnnn miminnnnnn nngagggagt 180
gnnnnntctg ccttgagtcc ccaggggaaa aaaaaaaaaan gatatttatg aaataaatgg 240
taatttgtgt aaataangct ttaagggtcc cagaatatgc aaattggtat taatttattc 300
aaagnnnnnn nrmrmnnnnn acatatattt agagattaac tcatacattt aaagttttt 360
tcattttacg tgagcatcta tattgtacag ggctgggggg ncccttggtc gcgggagaag 420
gcccagagcc ctggaggagc caccaccccg ccggcccctc gaccctcgg ccctcggcc 480
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<210> 462
<211> 238

<212> DNA

<213> Homo sapiens

<400> 462

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gtgcatggaa ctgtggttgc caaggtattt aaaagggctt tctgcctcc ttctcttga   120
ttatttaat ttgatttggg ctataaata tcatttttca ggttattct ttagcaggt    180
gtagttaac gacctccact gaactgggtt tgacctctgt tgtactgatg tgttgtga    238
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<210> 463

<211> 388

<212> DNA

<213> Homo sapiens

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<223> n is a, c, g, or t

<400> 463

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tgggcctagt cctgctccta gggctgtgaa tgtttcagg gtgggggggag ggagatggag   180
cctcctgtgt gtttgggggg aagggtgggt ggggncctcc cacttgccc cggggttcag   240
tggtatttta tacrinnrinn minnnnnnnn nrmnntggga aaggctgtgt gagggganag   300
aaggagagg gtgggcctgc tgtggacaat ggcatactct ctccagccc taggaggagg   360
gctcctaaca gtgtaactta ttgtgtcc                                     388
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<210> 464

<211> 345

<212> DNA

<213> Homo sapiens

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<222> (143)..(146)
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<222> (164)..(164)
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<222> (166)..(168)
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<221> misc_feature
<222> (247)..(248)
<223> n is a, c, g, or t
<400> 464
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gagcccnnnn rmrnmrmnnn nnngcaggcc aggaagagga ggaagccctg gaggggctgg 120
aggtgatgga tgtttntc cgnnnntnnn nnnnnncn cntntnnngn nnnnnnnnn 180
nnnnnimngt gcagaagtc tccctgcgag actgcagccc acggctcagt gaagaactct 240

accaccnntg ccgcctcagc aacctggagg ggctaggggg ccgtgcccag ctggctatgg 300
ctctctttga gcaggagcag gccaatagca cttagccgc ctggg 345

<210> 465
<211> 244
<212> DNA
<213> Homo sapiens

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gtttgtttt attgtgttt ctaaccataa gnnnnnnnnn ironnnnnnnn rnnnnnnnnn 120
nnnnnnnnac acaaaaaaat ggtcaccgca ggccatacta ccaatgaaat ggtaggtaaa 180
caaatcttct ggtcaagaga aaaaaaaaag aaatagcact ctgcatgctt tgctctacaa 240
gatg 244

<210> 466
<211> 578
<212> DNA
<213> Homo sapiens

<220>
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<222> (141)..(141)
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<220>
<221> misc_feature
<222> (145)..(145)
<223> n is a, c, g, or t
<220>
<221> misc_feature
<222> (148)..(148)
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<222> (165)..(165)
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<223> n is a, c, g, or t
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<222> (528)..(528)
<223> n is a, c, g, or t
<220>
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<222> (531)..(531)
<223> n is a, c, g, or t
<400> 466

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ctgggtagct gagcttatat gcccggcac tgaatgagag ctctctttgt aactgtgtga 120
cttgagatct agtttgc nag ntcnggnaa acaatacatg tgtntntnnn ttgtgtttg 180

ctcagcaagc agatgtctga gatgtaagaa gcttttctt tctgtggca ttgattctga 240
 cttagagctg aagtaaagat cactgaaaca tcacgtcaag ttgaagtcac tcataggtct 300
 ttgtccttta ggcaggacag gagagtcatt aagaagcatt tcactgtagc attctatcac 360
 aatatcatct ggaattnttt tctttgccca gaaagcctta acttgctct agagaatccc 420
 tggnnnnnnnn nnimmmnnnn nnnnnnnnnn ntcaactct tctgctgtgg aagtttgaag 480
 cgacngncna ggcanancca gagaattcc tcaagtngcc tntaggtnc ntgttatctt 540
 atgccccac cctccctca acaatatgag tgatccag 578

<210> 467

<211> 481

<212> DNA

<213> Homo sapiens

<400> 467

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 ccctcgaggt tgaaccctcg gatacgatag aaaatgtaaa ggccaagatc caggataagg 120
 aaggaattcc tctgatcag cagagactga tctttgctgg caagcagcta gaagatggac 180
 gtactttgtc tgactacaat attcaaaagg agtctactct tcatctgtg ttgagacttc 240
 gtggtgggtc taagaaaagg aagaagaagt cttacaccac tcccaagaag aataagcaca 300
 agagaaagaa ggtaagctg gctgtcctga aatattataa ggtggatgag aatggcaaaa 360
 ttatgcgctc tctcgagag tgccttctg atgaatgtgg tgctgggtg ttatggcaa 420
 gtcacttga cagacattat tgtggcaaat gttgtctgac ttactgttc aacaaccag 480
 a 481

<210> 468

<211> 452

<212> DNA

<213> Homo sapiens

<400> 468

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 tgcagtgcgt ctgaagtgt aatcagttgt aacaatagca caaatcgaac ttaggatttg 120
 ttcttctct tctgtgttc gattttgat caattcttta atttggaag cctataatac 180
 agttttctat tcttgagat aaaaattaaa tggatcactg atatttagt cattctgctt 240
 ctcatctaaa tattccata ttctgtatta ggagaaaatt accctcccag caccagcccc 300
 cctctcaaac cccaaccca aaaccaagca ttttggaatg agtctcctt agtttcagag 360
 tgtgattgt ataaccata tactcttga tttactgtt tggtttgga ttaatttgac 420
 tgtgcatgac agcggcaatc tttctttg tc 452

<210> 469

<211> 515

<212> DNA

<213> Homo sapiens

<400> 469

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 gtggggagcg gtggctgaga aaatgtaagg attctggaat acatattcca tggactttcc 120
 ttccctctcc tgcttctct ttctctgct cctaacctt cgccgaatgg ggcagacaaa 180
 cactgacgtt tctgggtggc cagtgcggct gccaggttc ttactactg ccttgactt 240
 ttcatitttg ctcaccgtgg atttctcat aggaagttt gtcagagtga attgaatatt 300
 gtaagtacg cactgggacc cgaggatttc tgggacccc cagttgggag gaggaagtag 360
 tccagccttc caggtgggag tgagaggcaa tgactcgtta cctgccgcc atcaccttg 420
 aggccttccc tggccttgag tagaaaagtc ggggatcggg gcaagagagg ctgagtacgg 480

atgggaaact attgtgcaca agtctttcca gagga

515

<210> 470

<211> 378

<212> DNA

<213> Homo sapiens

<400> 470

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ctcataaacc aatgtggcaa gactactgga ctctatcaa tggactacta atcagtcctt 120
attatcccag ctgctgagg ggcagggaga gcgcctcttc ctctgggcag cgctatctag 180
ataggttaagt gggggcgggg aagggtgcat agctgtttta gctgaggac gtggtgccga 240
cgtcccaaaa ctagctagg ctaagtcaag atcaacattc cagggttggg aatgttgat 300
gatgaaacat tcatttttac ctgtggatg ctagtctgt agagttcact gttgtacaca 360
gtctgttttc tattgtt 378

<210> 471

<211> 511

<212> DNA

<213> Homo sapiens

<400> 471

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tgaaggagtg gggccactgc ttggaatta aagaagagga catagatgaa aatctctgt 120
ttgaacgaa gattttaaag aactcaactt tccagcatcc tcctctgttc taaccacttc 180
agaaatatat gcagctgtga tactttaga ttatattta gcaaaatgtt agcatgtatg 240
acaagacaat gagagtaatt gcttgacaac aacctatgca ccaggatatt aacattaact 300
ttggaacaa aatgtacaa ttaagtaaag tcaacatag caaaatactg tacattgtga 360
acagaagttt aattcatagt aattcactc tctgcattga cttatgagat aattaatgat 420
taaactatta atgataaaaa taatgcattt gtattgtca taatacatg tgcacttcaa 480
gaaaatggaa tgctactctt ttgtggtta c 511

<210> 472

<211> 215

<212> DNA

<213> Homo sapiens

<400> 472

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cctgcgtcca tctgtctgt gcgccccaca gtagcgtgc agacgtccct gagaggttct 120
tgaagatgtt tatttatatt gtccttttt actggaagac gtacgcatac tccatcgatg 180
ttgtatttgc agtggctgag gaattctgt acgca 215

<210> 473

<211> 381

<212> DNA

<213> Homo sapiens

<400> 473

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gtaccacccc atatatttca tattactgtt tcacatgtac agctttctac ttctttgtaa 120
gaacaccaac caaccaaggt ttaagtgatt aataggcttg agcaccgggt ggcagatgtt 180
ctatgcagtg tggttcaagt ttctttgacc gcacttatat gcattgctaa tatggaattt 240
aagataccat acacagtctc tcatggacct atctctattg tagaattatg acttatgtct 300

tacttggcaa attttctga atgtgacctt ttttgcga tttgctgggt ttgggattaa 360
ctagcattat ttggcacct t 381

<210> 474

<211> 484

<212> DNA

<213> Homo sapiens

<400> 474

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ttttatttt aattggttta gttcttaact gctggccaac tcttacatcc ccagcaaate 120
atcgggccat tggattttt ccattatgt catcaccctt atatcatgta cctcagatct 180
ctctctctct cctctctctc agttatatag tttctgtct tggactttt tttcttttc 240
ttttctttt ttttttgc ttaaaacaag tgtgatgcca tatcaagtcc atgtattct 300
ctcacagtgt actctataag aggtgtgggt gctgtttgg tcaggatgtt agaaagtgt 360
gataagtagc atgatcagtg tatgcgaaaa ggtttttagg aagtatggca aaaatgtgt 420
attggctatg atggtgacat gatatagtca gctgcctttt aagaggtctt atctgttcag 480
tggt 484

<210> 475

<211> 563

<212> DNA

<213> Homo sapiens

<400> 475

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tctttacagc agaggaaacc attgtccaca aaactgatgt tctttgggg tttatgtac 180
agactgtcc aatcatgtgt gtggttctg cgagttgctg atgactccgc attgaagctc 240
tctgagttct ttgattttaa gttgggttta tggaatttt tcaaatttg gaaggcgtgt 300
ggttcttct gccctccctc ccttttgga aatatgaaag caaatgttta gaagaattcc 360
ttttgaaaag ctgtgtcgtg ttcctgtga aactgagcag gtgtgtgtg gcgcgctaag 420
tgccacatgc ttgtgttag aggaggaggt ggccctgccg gctccgcgt gctgtgcctg 480
tgatccctac ctgctccccg ctctgttgc cagcagcact cactgcactc cttgtcata 540
tactctgcat cactgtcata etc 563

<210> 476

<211> 295

<212> DNA

<213> Homo sapiens

<400> 476

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tttcccgctc tgaattgac atgaatgata tcaaagcatt ctatcagaag atgtatgta 180
tctcccttg ccaagccatc ctgatgaaa ccaaaggaga ttatgagaaa atcctggtgg 240
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<210> 477

<211> 360

<212> DNA

<213> Homo sapiens

<400> 477

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gcacattcgg gaccaatata tagtgggtac atcaagtcca tctgacaaaa tggggcagaa 180
gagaaaggac tcagtgtgtg atccggttcc ttttgctcg cccctgtttt ttgtagaatc 240
tcttcattgct tgacatacct accagtatta ttcccgacga cacatatata tatgagaata 300
taccttattt attttgtgt aggtgtctgc cttcacaaat gtcattgtct actcctagaa 360

<210> 478

<211> 461

<212> DNA

<213> Homo sapiens

<400> 478

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tttcctgcc acatccagct tgtgtccca atgaaatact gagatgctgg gctgtctctc 180
ccttcaggga atgctgggcc cccagcctgg ccagacaaga agactgtcag gaagggtcgg 240
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aaaagatcct gcatttatgg ttagttctg agtctgaga ctttctgctg tgatggctat 360
gcctgcaca caggtgttgg tgatggggct gttgagatgc ctgttgaagg tacatcgtt 420
gcaaattgta gtttctctc ctgtccgtgt ttgttagta c 461

<210> 479

<211> 541

<212> DNA

<213> Homo sapiens

<400> 479

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tcagccaggg acaaaatccc ctcccaaacc actctccaca gcttttaaa aatacttcta 180
ctcttaacaa ttacctaagg ctctctcaac tgccccaat ctcttaatag ctctagtgc 240
tgctacaatc taagttaggt caccagaggg aagagaacat ggcattaaaa gaatcacatc 300
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aatatgagtc attgtgtctg aaaactgcaa agtgaactta actgagatcc agcaaacagg 480
ttctgtttaa gaaaaataat ttactataa ttagtaaaa tggacttctt attcaaagca 540
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<210> 480

<211> 488

<212> DNA

<213> Homo sapiens

<400> 480

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gccccagcac agcttgacct gaggtgtgg tcacagcggg ggtgtggagc cgaggcctac 180
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gagaggtggg ccagtctgtg gatcagagat gcaccaccaa gccaaaggga cctgtgtccg 360
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aaaggggtcg gctgaccatg ctcatctgct ggtccgtggg acggtgcccc agccagaggc 480

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488

<210> 481
<211> 547
<212> DNA
<213> Homo sapiens

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<223> n is a, c, g, or t
<220>
<221> misc_feature
<222> (135)..(135)
<223> n is a, c, g, or t
<220>
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<222> (258)..(258)
<223> n is a, c, g, or t
<400> 481

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gttggtttca aagtncgaca ggcttgtctg ttactagct gcgtggcctt ggacgggtgg 180
ctgacatctg taaagaatcc tctgtgatg aaactgagga atcgggtggc cgggcaagct 240
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acataagcac aggatgtttt tctcaagagg gatgtattta tcaattggac atctgtttat 360
aatataaaca gacatgtgac tgggaacatc ttgctgcaa aagaatccta ggcagtggct 420
cattgtatgt gaggttgaac cagtgaaat tgccaatatt aggctggctt ttatctaca 480
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tggcatg 547

<210> 482
<211> 451
<212> DNA
<213> Homo sapiens
<400> 482

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aaaactgtca cagtcaaagt gcctcagaag aactcataag aatcatgcaa gcttcctccc 180
tcagccattg atggaaagt cagcaagatc agcaacaaaa ccaagaaaaa tgatccttgc 240
gtgctgaata tctgaaaaga gaaattttc ctacaaaatc tcttgggtca agaaagttct 300
agaatttgaa ttgataaaca tgggtgggtg gctgagggtg agagtatatg aggaaccttt 360
taaacgacaa caatactgct agcttcagg atgattttta aaaaatagat tcaaatgtgt 420
tatcctctct ctgaaacgct tcctataact c 451

<210> 483
<211> 364
<212> DNA
<213> Homo sapiens
<400> 483

atgatccaga aataactaac acgtgaatat ttgctaaaa aagcatatat aactatttta 60
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taaaggcctt tgtatcttc ttctctaata gttgtatcat actcttctaa aacttgagtg 180
gctgtcttaa aagatataag gggaaagata atattgtctg tctctatatt gcttagtaag 240
tattccata gtcaatgatg gttaatagg taaaccaaacc cctataaacc tgacctcctt 300
tatggttaat actattaagc aagaatgcag tacagaattg gatacagtac ggattgtcc 360
aaat 364

<210> 484

<211> 468

<212> DNA

<213> Homo sapiens

<400> 484

ttagcgttca tccgtgtaac ccgtcatca ctggatgaag attctcctgt gctagatgtg 60
caaatgcaag ctatggcctt caaaatagag aatcccactt tctatagcag attgtgtaac 120
aattttaatg ctatttcccc aggggaaaat gaagggttagg atttaacagt catttaaaaa 180
aaaaatttgt ttgacggat gattggatta ttcatttaaa atgattagaa ggcaagtctc 240
tagctagaaa tatgatttta ttgacaaaaa ttgttgaaa ttatgtatgt ttacatatca 300
cctcatggcc tattatatta aaatatggct ataaatatat aaaaagaaaa gataaagatg 360
atctactcag aaatttttat ttttctaagg ttctcatagg aaaagtacat ttaatacagc 420
agtgtcatca gaagataact tgagcaccgt catggcttaa tgtttatt 468

<210> 485

<211> 357

<212> DNA

<213> Homo sapiens

<400> 485

cagggtgtc atcaacatgg atatgacatt tcacaacagt gactagtga atcccttga 60
acgtagttagt tgtctgctct ttgtccatgt gtaatgagg actgcaaagt ccttctgtt 120
gtgattccca ggactttcc tcaagaggaa atctggattt ccacctaccg cttacctgaa 180
atgcaggatc acctacttac tgtattctac attattatat gacatagtat aatgagacaa 240
tatcaaaagt aaacatgtaa tgacaatata tactaacatt ctgtaggag tggtagaga 300
agctgatgcc tcatttctac attctgtcat tagctattat catctaactg ttcagt 357

<210> 486

<211> 436

<212> DNA

<213> Homo sapiens

<400> 486

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tacttaatac acagtaattc agaactgta ttctattatg agtttagcag tctttggag 120
tgaccagcaa cttgatgtt tgcactaaga ttttatttgg aatgcaagag aggttgaaag 180
aggattcagt agtacacata caactaatat attgaacta tatgttgaag acatctacca 240
gttttccaa atgccttttt taaaactcat cacagaagat tggtgaaaat gctgagtatg 300
acacttttct tcttgcacgc atgtcagcta cataaacagt ttgtacaat gaaaattact 360
aatttgttg acattccatg taaactacg gtcattgtca gcttcattgc atgtaatgta 420
gacctagtcc atcaga 436

<210> 487

<211> 470

<212> DNA

<213> Homo sapiens

<220>

<221> miscfeature

<222> (63)..(63)

<223> n is a, c, g, or t

<220>

<221> miscfeature

<222> (83)..(83)

<223> n is a, c, g, or t

<400> 487

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tgnntaataa taggtactgt acngggctct gtgtaagtgt cgttggggta ggacctatat 120
ttaaactg ttctaacat tcatcttac tagcgagaaa tcttgattt cattttatc 180
tttgaattc tagacactag attgtagttt agccataact gatgttttt aaaaagggat 240
atatcttctt gcacagtgtt tcaaaaaaga gacaagtttc agtcctcaat gctgtccttt 300
gttttacagg tacaagttt ctgctcaga caaactatga aaaactgtag actattctca 360
aggattaac tcgcagaccc tctgggggta ggggctgtt tctaagttac aggcagagtg 420
ggactgagat ggtacagtgt gcacagacag gtactgagct gacagactgg 470
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<210> 488

<211> 446

<212> DNA

<213> Homo sapiens

<400> 488

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ggcttcattt caagagtcac ccagcaatga gagaatcctg cctctgtaga ccaacatcca 60
gtgtgatttt gtgtctgaga ccacacccca gtagcagggt acgcatgtc accgagcccc 120
attgattccc agagggtctt agtcctggaa agtcaggcca acaagcaacg ttgcatcat 180
gttatctctt aagtattaaa agttttattt tctaaagttt aaatcatgtt ttcaaaata 240
ttttcaagg tggctgggtc catttaaaaa tcactttttt atatgtgtct tcggttctag 300
acttcagctt ttgaaattg ctaaatagaa ttcaaaaatc tctgcatcct gaggtgatat 360
acttcattt tgaatcaac tgaagagct gtgcattata aaatcagtta gaatagttag 420
aacaattctt atttatgcc acaacc 446
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<210> 489

<211> 549

<212> DNA

<213> Homo sapiens

<400> 489

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cgggtggaggt cttgccggag gtagcagtg aagctactac tccagcagca gtgggggtgt 60
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gtctgggggtg ggttttgga gtggcggggg tagcagctcc agcgtcaaat ttgtctccac 180
cacctctcc tcccgaaga gcttcaagag ctaagaacct gctgcaagtc actgcctcc 240
aagtgcagca acccagccca tggagattgc ctcttctagg cagttgtca agccatgttt 300
tatcttttc tggagagtag tctagaccaa gccaatgca gaaccacatt ctttggtcc 360
caggagagcc ccattcccag cccctggct cccgtgccgc agttctatat tctgctcaa 420
atcagccttc aggtttccca cagcatggcc cctgtgaca cgagaaccca aagttttccc 480
aaatctaat catcaaaaca gaatccccac cccaatccca aattttgttt tggttctaac 540
tacctccag 549
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<210> 490

<211> 474

<212> DNA

<213> Homo sapiens

<400> 490

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gaggggaaggt gattggtagt gagttaaag aaaaagagag gaaaagagag tagttttgtc   60
ttcaagtaaa atgtctggtt gtgccagaca ttcacaagt gtgaaaggag ataggagaag   120
ctcaactga gggcgtgtag taagtgttag aaggctcgag gggacgtgga cttattgcc   180
ttggtttgca atacctgcaa ataatgagtt tgaaaagaaa caatgaaatg tgttaaaaat   240
ttgaccatat tagataaatt ttggtggatt tagtcataag atggaaaaag actggtgaat   300
cttttattac aaaatgtttc tgttaaaatg ggatcatcat ctttgaaagg ggggaggagg   360
agtaaaagcc cgattataat ggtgatcaat tcaagtcagt gttgactatt ctgtgaaata   420
tatttgcca gtggaaatga taatcagaaa agactgtaaa tagatccatc caaa       474

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<210> 491

<211> 378

<212> DNA

<213> Homo sapiens

<400> 491

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agaacatggt aagcctggta tttttaatc aaacaaaata tttatgaaat gggttttctc   60
ttaattctgg attcacatg gctttctaataccaattgta atatttcaa tttcaccaa   120
aacttagaat ttgcaaatg caggaattct gccagtggtt ctttgctaag ccttgcattc   180
aaaatttgaa attttaacat tggcacccaa aacctacatg gaatgtatgt ctggagtatt   240
tcaaacttta cattgaaaca taatttcctt ggaaaacaaa ccataagcct gaggagggtt   300
ttatcaactg gaatgcttta tattagtttg ttttcaactg tacattctc attttacatt   360
catttaacct gccgatta                               378

```

<210> 492

<211> 542

<212> DNA

<213> Homo sapiens

<400> 492

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gaaaaagcac ctgaattctc aatgcagggt ctaaaagctg gtgttattgc tgttattgtg   60
gttgtggtga tagcagttgt tgctggaatt gttgtgctgg ttattccag aaagaagaga   120
atggcaaatg atgagaaggc tgagataaag gagatgggtg agatgcatag ggaactcaat   180
gcataactat ataatttgaa gattatagaa gaaggggaaat agcaaatgga cacaattac   240
aaatgtgtgt gctgtggacg aagacatctt tgaagggtcat gagtttgta gtttaacatc   300
atatatttgt aatagtgaaa cctgtactca aaatataagc agcttgaaac tggtttacc   360
aatcttgaaa ttgaccaca agtgtcttat atatgcagat ctaatgtaaa atccagaact   420
tggactccat cgttaaaatt atttatgtgt aacattcaaa tgtgtgcatt aaatatgctt   480
ccacagtaaa atctgaaaaa ctgatttggt attgaaagct gcctttctat ttacttgagt   540
ct                               542

```

<210> 493

<211> 456

<212> DNA

<213> Homo sapiens

<400> 493

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tcagcagtat agggaccttc cgcacaagct ctgtgttaag attgacaata atagtggggc   60

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cattttcatt ttagtctttt ctaagagtca accacaggca ttaagtcag ccaaagaata 120
 ttgttacctt aaagcactat ttatttata gatatactta gtgcatctac atctctatac 180
 tgtacactca cccataatc aaacaattac accatggtat aaagtgggca ttaatatgt 240
 aaagattcaa agtttgtctt tattactata tgtaaattag acattaatcc actaaactgg 300
 tcttcttcaa gagagctaag tatacactat ctggtgaaac ttgattctt tcctataaaa 360
 gtgggaccaa gcaatgatga tcttctgtgg tgcttaagga aacttactag agctccacta 420
 acagtctcat aaggaggcag ccatcataac cattga 456

<210> 494

<211> 513

<212> DNA

<213> Homo sapiens

<400> 494

atgctggtt ctgtagggtta ttttaattt tgcagaaat ttagattgt gaatattttg 60
 taaaaaacag taagcaaat ttccagaat tcccaaatg aaccagatac cccctagaaa 120
 attatactat tgagaaatct atggggagga tatgagaaaa taaattcctt ctaaaccaca 180
 ttggaactga cctgaagaag caaactcgga aatataata acatccctga attcaggcat 240
 tcacaagatg cagaacaaaa tggataaaag gtatttact ggagaagttt taatttctaa 300
 gtaaaattta aatcctaaca ctactaat ttataactaa aatttctcat cttcgtactt 360
 gatgctcaca gaggaagaaa atgatgatgg ttttattcc tggcatccag agtgacagtg 420
 aacttaagca aattaccctc ctaccaat ctatggaata tttatacgt ctcctgttt 480
 aaaatctgac tgccttactt tgatgtatca tat 513

<210> 495

<211> 492

<212> DNA

<213> Homo sapiens

<400> 495

tcctgtctat cacaatcagc ctctgaacce cgcgcccagc agagaccac actaccagga 60
 cccccacagc actgcagtgg gcaaccccgga gtatctcaac actgtccagc ccactgtgt 120
 caacagcaca ttcgacagcc ctgcccactg ggcccagaaa ggcagccacc aaattagcct 180
 ggacaaccct gactaccagc aggacttct tcccaaggaa gccaagccaa atggcatctt 240
 taagggtcc acagctgaaa atgcagaata cctaagggtc gcgccacaaa gcagtgaatt 300
 tattggagca tgaccacgga ggatagtatg agccctaaaa atccagactc ttcgatacc 360
 caggaccaag ccacagcagg tcctccatcc caacagccat gccgcatta gctcttagac 420
 ccacagactg gtttgcaac gtttacccg actagccagg aagtacttcc acctcgggca 480
 cattttggga ag 492

<210> 496

<211> 536

<212> DNA

<213> Homo sapiens

<400> 496

ctcaaagagt atatgttccc tccaggtcag ctgcccccaa accccctct tacgctttgt 60
 cacacaaaaa gtgtctctgc ctgagtcac ctattcaagc acttacagct ctggccacaa 120
 cagggcattt tacagggtgcg aatgacagta gcattatgag tagtgtgaat tcaggtagta 180
 aatatgaaac tagggtttga aattgataat gctttcaca catttgcaga tgtttagaa 240
 ggaaaaaagt tccttcttaa aataatttct ctacaattgg aagattggaa gattcagcta 300
 gttaggagcc catttttcc taatctgtgt gtgccctgta acctgactgg ttaacagcag 360
 tcctttgtaa acagtgtttt aaactctct agtcaatc caccatcc aattatcaa 420

ggaagaaatg gttcagaaaa tattttcagc ctacagttat gttcagtcac acacacatac 480
 aaaaatgttcc ttttgccttt aaagtaattt ttgactccca gatcagtcag agcccc 536

<210> 497

<211> 555

<212> DNA

<213> Homo sapiens

<400> 497

aagt tactct catcagtcgt tcatggtcac aacctgaggt actctgctga gtgggcaagg 60
 ctgaagtaag aggcctgtgg aatgcagcat tacctgctgg acagagcagg gcaggcagtt 120
 ctatgccttg gagctcctga ctgcagggac tctgtcccca cactcagaaa gactcagctc 180
 actcaatgag agaattgat ttactttata gaacgtataa tcaactttgt tgaataattt 240
 gttctattaa ggctgtctaa aatgtgatgt ctcatcata gtatgaagtg ttgaaaatta 300
 ataacgagcc tagtttagga aaaagctgct taaaactgtg gctctaagag agtaatcata 360
 aaatacctta gataaaattg cactatggaa tttcattga gtatgtttaa attattggct 420
 tgtctactaa tacatctgct tcaaaatgaa catatttcat aaaattggca tcaattttaa 480
 tgacgtcctt ggatgggaac ctcatagata ccctattgga gacaatcctt tgatcataaa 540
 ttctcccaaa ctata 555

<210> 498

<211> 507

<212> DNA

<213> Homo sapiens

<400> 498

gcagaacact gcagtcagat cctgttactt gcttcagtgg accgaaatct gtattctgtt 60
 tgcgtacttg taatatgtat attaagaagc aataactatt ttctctcatt aatagctgcc 120
 ttcaaggact gttcagtggt gactcagaat gtgaaaaagg aataaaaaat actgttgggc 180
 tcaaaactaaa ttcaagaag tactttattg caactctttt aagtgccttg gatgagaagt 240
 gtcttaaaatt ttcttctttt gaagcttttag gcagagccat aatggactaa aacattttga 300
 ctaagttttt ataccagctt aatagctgta gtttccctg cactgtgtca tctttcaag 360
 gcaattgtct ttgtaatat ttccataaat ttggactgtc tatatcataa ctatactga 420
 tagtttggct ataagtgtc aatagcttga agccaagaa gttggtatcg aaattgttg 480
 ttgtttaaa cccaagtgtc gcacaaa 507

<210> 499

<211> 213

<212> DNA

<213> Homo sapiens

<400> 499

acttttgtat cttttatcct gggagcactg cgttttcta gctgtgttat tcttggtta 60
 attcagcaga gaaggttaagg tgtgaacctt cctgccttgg agaggcccag gtcccaaate 120
 tcttcaaat cttcacatgt ttaactttaa ggatttgaac catgaagtca taggttacag 180
 acctcagttt tatgccccat tggattactt ttt 213

<210> 500

<211> 173

<212> DNA

<213> Homo sapiens

<400> 500

ttcttttga ggcatgcaca tctggaatta aggtcaaaact aattctcaca tccctctaaa 60

agtaactac tgtaggaac agcagtgtc tcacagtgtg gggcagccgt ctttctaag 120
aagacaatga tattgacact gtccctctt ggacagtgca ttagtaact tga 173

<210> 501

<211> 531

<212> DNA

<213> Homo sapiens

<400> 501

ctgttagctc ctactgtgg taaatgccac acacctttaa gtagataagc agacgatagt 60
tatctgttct ttgacttaa tctcatttg ttgatttc ccttactaa ggcttctca 120
ccttctcag gctgcctaag acatgtaagc gaaacacttc aataattgtc catgaggaga 180
aaaaaagcat tgcacatga gaaggaaact gaactgagg tggcctcctt gcttgttaca 240
tacctgggta tgttaggca gtttagtga tcttgccctc tcagtgaac cctgtataac 300
cctgttaca agctgtgtg ttgctcttg tgaaggccat gatatttctg ttttccca 360
attaattgct attgtgtat ttactaact tctctgtga ttttcttg cattgacatt 420
atagacattg aggacatcat ccaacaatt taaaaatgag tgtgaagggg gaacaagtca 480
aaatatttt aaaagatctt caaaaataat gcctctgtct agcatgcca c 531

<210> 502

<211> 511

<212> DNA

<213> Homo sapiens

<400> 502

aagagaatgt tctactcac acttcagctg ggtcacatcc atccctccat tcactcttc 60
atccatctt ccatcatta cctccatca tcttccaac atatatat ttagtaccta 120
ctgtgtgcca ggggctggg ggacagtgg gacatagtct ctgccctcat agagttgatt 180
gtctagttag gaagacaagc atttttaaaa aataaattta aacttacaac cttgtttgt 240
cacaagtggg gtttattgca ataaccgctt ggtttgcaac ctcttgctc aacagaacat 300
atgttgcaag accctccat gggggcactt gagtttggc aaggctgaca gagctctggg 360
ttgtgcacat ttcttgcat tccagctgtc actctgtgcc ttctacaac tgattgcaac 420
agactgttga gttatgataa caccagtggg aattgctgga ggaaccagag gcactccac 480
cttggtggg aagactatgg tgctgccttg c 511

<210> 503

<211> 324

<212> DNA

<213> Homo sapiens

<400> 503

gtatgacaac ccgggatcgt ttgcaagtaa ctgaatccat tgcgacattg tgaaggctta 60
aatgagtta gatgggaaat agcgttgta tcgccttggg tttaaattat ttgatgagtt 120
ccactgtat catggcctac ccgaggagaa gaggagttg ttaactgggc ctatgtagta 180
gcctcatta ccatcgttg tattactgac cacatatgct tgcactggg aaagaagcct 240
gttcagctg cctgaacgca gtttgatgt cttgaggac agacattgcc cggaactca 300
gtctattat tctcagctt gcc 324

<210> 504

<211> 122

<212> DNA

<213> Homo sapiens

<400> 504

cttgcccttt gtacacaagt tcccagggtg agcagctttt ggatttaata tgaacatgta 60
cagcgtgcat agggactctt gccttaagga gtgtaaactt gatctgcatt tgctgatttg 120
tt 122

<210> 505

<211> 444

<212> DNA

<213> Homo sapiens

<400> 505

gaagccctgg aaaatgcct gagatacaga tgaagattag aaatcgcgac acattttag 60
tcattgtatc acggattaca atgaacgcag tgcagagccc caaagctcag gctattgta 120
aatcaataat gttgtgaagt aaaacaatca gtactgagaa acctggttg ccacagaaca 180
aagacaagaa gtatacacta acttgtataa atttatctag gaaaaaaatc cttcagaatt 240
ctaagatgaa ttaccagggt gagaatgaat aagctatgca aggtatttg taatatactg 300
tggacacaac ttgctctgc ctcatcctgc cttagtgtgc aatctcattt gactatacga 360
taaagtttgc acagtcttac ttctgtagaa cactggccat aggaaatgct gttttttgt 420
actggacttt acctgatat atgt 444

<210> 506

<211> 212

<212> DNA

<213> Homo sapiens

<400> 506

cattcctagc cgagtgtgac acagtggagc agaacatctg ccaggagact gagcggctgc 60
agtctacaaa ctttgccttg gccgagttag gtgtagcaga aaaaggctgt gctgccctga 120
agaatggcgc caccagctct gccgtctctg gatcggaatt tacctgattt ctcagggt 180
gctgggggca actggccatt tgccaattt cc 212

<210> 507

<211> 433

<212> DNA

<213> Homo sapiens

<400> 507

gccagcgtc tgacatgcag aaggtgaccc tgggcctgct tgtgttctg gcaggcttc 60
ctgtcctgga cgcaatgac ctagaagata aaaacagtcc ttctactat gactggcaca 120
gcctccagggt tggcgggctc atctgcgtg gggttctgtg cgccatgggc atcatcatg 180
tcatgagtgc aaatgcaaa tgcaagttg gccagaagtc cggtcacat ccaggggaga 240
ctccacctct catcacccca ggctcagccc aaagctgatg aggacagacc agctgaaatt 300
gggtggagga ccgttctctg tcccaggtc ctgtctctgc acagaaactt gaactccagg 360
atggaattct tctctctctg ctgggactcc ttgcatggc agggcctcat ctcacctctc 420
gcaagagggt etc 433

<210> 508

<211> 442

<212> DNA

<213> Homo sapiens

<400> 508

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gcctgtctct tccctgatgg cctttggacc cagggcctga cttgagccac tccttcctc 120
aggactctgc gggaggctgg ggccccatct tgatcttga gccattctt ctgggtgtgc 180

ttttgggac catcactgag agtcaggagt ttactgcct gtagcaatgg ccagagcctc 240
 tggcccctca cccaccatgg accagcccat tggccgagct cctggggagc tcctgggacc 300
 cttggctatg aaaatgagcc ctggctccca cctgtttctg gaagactgct cccggcccgc 360
 ctgcccagac tgatgagcac atctctctgc cctctccctg tgttctgggc tggggccacc 420
 tttgtgcagc ttcgaggaca gg 442

<210> 509

<211> 536

<212> DNA

<213> Homo sapiens

<400> 509

aatctgaaga ttaaccattt tttgtctta gaatatcaaa aagaaaaaga aaaaggtgtt 60
 ctagtgttt gcatcaaagg aaaaaaagat ttattatcaa ggggcaatat tttatcttt 120
 tccaaaataa atttgtaat gatacattac aaaaatagat tgacatcagc ctgattagta 180
 taaatttgt tgtaattaa tccattcctg gcataaaaag tctttatcaa aaaaaattgt 240
 agatgcttgc ttttgttt ttcaatcatg gccatattat gaaaatacta acaggatata 300
 ggacaagggtg taaattttt tattattatt ttaaagatat gatttatcct gagtgtctga 360
 tctattactc tttactttg gtctctgtg tgctcttgta aaagaaaaat ataatttcct 420
 gaagaataaa atagatatat ggcacttga gtgcatcata gttctacagt ttgttttgt 480
 ttcttcaaa aaagctgtaa gagaattatc tgcaactga ttctggcag gaaata 536

<210> 510

<211> 325

<212> DNA

<213> Homo sapiens

<400> 510

atatgtattc attcacttcc aagatttgt ttggtgtcaa aataacatga aaaggtagat 60
 ggagttgctt ctgttgaatt agctctgcca ccaatatgta tctcatata cgtttggaaa 120
 tgtttcctgc agcattaggt atgacttgtt ctgagtactg ctccgggtgc taaatgaac 180
 aaagaatttg tacttaattg catggactct ggagaatcta tgcgaatcaa ctttctacc 240
 ttaatatctc cccaaaaatg tatagtgcct tgttttatg tacagtttat atacagaaaa 300
 gtttgctctg catttttgat gatgg 325

<210> 511

<211> 555

<212> DNA

<213> Homo sapiens

<400> 511

tgggaggccc tgtaagagcc tgggtgaaat ggagagtgg aataaaatgg tctgtgagca 60
 gaagctcctg aaggagagagg gccccaagac ctctgtggacc agagaactga ccaacgatgg 120
 ggaactgac ctgaccatga cggcggatga cgttgtgtgc accagggtct acgtccgaga 180
 gtgagtggcc acaggtagaa ccgcggccga agcccaccac tgcccatgct caccgccctg 240
 cttcactgcc cctcctgccc caccctctcc ttctaggata gcgtccctt taccaccagtc 300
 acttctgggg gtactggga tgctcttgc aggtcttgc tttcttgac ctctctctc 360
 ctcccctaca ccaacaaaga ggaatggctg caagagccca gatcaccat tccgggttca 420
 ctcccgcct ccccaagtca gcagtcttag ccccaaacca gccagagca gggctctct 480
 aaaggggact tgagggcctg agcaggaaag actggccctc tagcttctac ctttgtccc 540
 tgtagcctat acagt 555

<210> 512

<211> 513

<212> DNA

<213> Homo sapiens

<400> 512

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ttccttgttt tggcttcttt tcagaatgcc gggagagtac atgcagggat tccatctaata 60
caccctcagc actctttctc tggctctgct ggatagattt agatttcctt tcttttttta 120
gggcctcagt ctgctatctc ctttgggtggc taccaccact cactcccttg atatcttcta 180
ctcccttgcc ttcaccttgc ttaagactga gaagggagtt agattttgtc actagctctt 240
cttttctc actgtgtacc ccaccaaaaca agattagttc aagttaaaaa gaacctactg 300
gaggtaaact gggagagcaa gtgttgatc tgggctggc ctttcccat aaaattaggt 360
ccctggtgt atgttcccat agcaccat acttctctc tcagaataat catttcctt 420
gtaatgctca gcatccgcat cctgcttgac tgcaaacttg ctgaaggtag ggactgtttg 480
tcttggactt cgctgccagt ccttagaaca gtg 513

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<210> 513

<211> 519

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (46)..(46)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (117)..(118)

<223> n is a, c, g, or t

<400> 513

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ggaatttga ccatcatgtt tcagtgaaga tgctgtaaat aggttnagat ttactgtct 60
atggatttgg ggtgttacag tagccttatt caccctttta ataaaaatac acatgannac 120
aagaaagaaa tggcttttct taccagatt gtgtacatag agcaatgttg gtttttata 180
aagtctaagc aagatgtttt gtataaaatc tgaatttgc aatgtattta gctacagctt 240
gtttaacggc agtgtcattc cccttgcac tgtaatgagg aaaaaatggg ataaaagggt 300
gccaaattgc tgcataattg tgccgtaatt atgtaccatg aatatattt taaaatttcg 360
ttgtccaatt tgtaagtaac acagtattat gcctgagtta taaatattt ttctttctt 420
tgttttatt taatagcctg tcatagggtt taaatctgct ttagtttcac attgcagtta 480
gccccagaaa atgaaatccg tgaagtcaca ttccacatc 519

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<210> 514

<211> 563

<212> DNA

<213> Homo sapiens

<400> 514

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agagcttct gatctgggtg aatgaggagg atcacacacg ggtgatctcc atggagaagg 60
gtggtaacat gaagagagt tttgaaagat tctgccgagg cctcaaagag gtggagagac 120
ttatccaaga acgtggctgg gagttcatgt ggaatgagcg ttgggatac atcttgacct 180
gtccatctaa cctgggcact ggacttcggg caggagtga catcaaactg ccctgctaa 240
gcaaagatag cgcctccca aagatcctgg agaacctaa actccaaaaa cgtggtactg 300
gaggagtga cactgtgct acaggcgggtg tcttgatat ttctaattg gaccgactag 360
gcaaactaga ggtggagctg gtgcaactgg tcatcgatgg agtaaaactat ttgattgatt 420

```


gtgaacggcg tctggagaga ggccaggata tccgcatccc cacacctgtc atccacacca 480
 agcattaact ccccatcgcc agctgatgac tcaagattcc caggagtttt gctcattcta 540
 atgatggccc attctacttg etc 563

<210> 515
 <211> 549
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (76)..(76)
 <223> n is a, c, g, or t
 <400> 515
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 tgaaactgaa attacntgag tticattttt tctttgaatt tatagggttt agatttctga 120
 aagcagcatg aatatatcac ctaacatcct gacaataaat tccatccgtt gtttttttg 180
 ttgtttgtt tttcttttc cttaaagtaa gctctttatt catcttatgg tgcagcaatt 240
 ttaaaatttg aaatatatta aattgtttt gaactttttg tgtaaaatat ateagatete 300
 aacattgttg gtttcttttg ttttcattt tgtacaactt tcttgaattt agaaattaca 360
 tctttgcagt tctgttaggt gctctgtaat taacctgact tatatgtgaa caatttcat 420
 gagacagtca ttttaacta atgcagtgat tctttctcac tactatctgt attgtggaat 480
 gcacaaaatt gtgtagggtg tgaatgctgt aaggagtta ggttgatga attctacaac 540
 ectataata 549

<210> 516
 <211> 443
 <212> DNA
 <213> Homo sapiens
 <400> 516
 agaagtctca gctaagctca cgtcctgaga aagctcaaag gtttgaagg agcagaaaac 60
 ccttgggccca gaagtaccag actagatgga cctgcctgca taggagtttg gaggaagttg 120
 gagttttgtt tctctgttc aaagctgcct gtccctaccc catggtgcta ggaagaggag 180
 tggggtggtg tcagaccctg gagggcccaa cctgtcctc ccgagctcct ctccatgct 240
 gtgcgccag ggctgggagg aaggactcc ctgtgtagtt tgtgctgtaa agagttgctt 300
 tttgtttatt taatgctgtg gcatgggtga agaggagggg aagaggcctg ttggcctct 360
 ctgtcctctc ttctcttcc cccaagattg agctctctgc cttgatcag cccaccctg 420
 gcctagacca gcagacagag cca 443

<210> 517
 <211> 516
 <212> DNA
 <213> Homo sapiens
 <400> 517
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 tctgcgtggc atctgtcagc tttcacctt tcattettat tetteaett tgctgctgag 120
 cctagctgta caaacttga ctttcatttg ctaatatataa ttacgtttta tttaccatt 180
 ttagagacta ctaatgatta aatgtagaag gagagggtgc acatgtttt atgtggagtg 240
 tttaaaagat aaatttatac cactgtaatg tgcagctttt attaaaagag aaattgggtg 300
 aactgctagg ttgaatgaga gacttcatct attggactat ttttttaac ccaggcatat 360

ggctcttagt aatggcttgt aatttgtgaa aacattaatt tgggggtttt ccctgttttc 420
agttgtccat gtacacatag tcattatatt agaaaagaaa gctgttcaac aaactgtttt 480
aattgttta aatcaacata gcatgaaaca ccaaat 516

<210> 518

<211> 516

<212> DNA

<213> Homo sapiens

<400> 518

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ttgtgtgtgt gtgtgggtgt gtgtgtgttt tgacacaaaa acaatgcaag catgtgtcat 120
ccatatttct ctacatcttc tcttgagtg agggaggcta cctggagggg atcagcccac 180
tgacagacct taatctaat tactgctgtg gctagagagt ttgaggattg ctttttaaaa 240
aagacagcaa acttttttt ttatttaaaa aaagatatat taacagtttt agaagtcagt 300
agaataaaat cttaaagcac tcataatatg gcatccttca atttctgtat aaaagcagat 360
cttttaaaa aagatacttc tgtaacttaa gaaacctggc atttaaatca tttttgtct 420
ttaggtaaaa gctttgggtt gtgttcgtgt tttgttgtt tcactgttt ccctcccagc 480
cccaaacctt ttgtctctc cgtgaaactt acctt 516

<210> 519

<211> 379

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (170)..(170)

<223> n is a, c, g, or t

<400> 519

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aggaaagaaa gacattttt agggggcagc cagtccaaat gccaaaagaa gaccagtct 120
tgccctgatt gtagaaatt tgacattttg gcacttttt tttttttt ggccaatcag 180
atttctatg ttctaaggac atggctgctg tagaatagca cagacgtgga tgataaatta 240
tccccagaag cagcatgaca gaatgcctcg gggagcactt ggaagggaaa ttgcagtct 300
gttgaaatag aggaaaatcc ctggtaaag acacagcctg ttaggctcgt gtgggcctcc 360
agtatgttca ccaggggaa 379

<210> 520

<211> 466

<212> DNA

<213> Homo sapiens

<400> 520

agtagtgctt gtggtttagc ccaccaatct tgatgactaa aagtagctga tgcattgtgc 60
atatgatgct tgagatggtt ttgcaaaag cagaaatcgc tgcaaggtaa tcacaataga 120
taaaagtgtt attttaaac ttgaaataa atggatgtaa ctgtaccttg gtacagcttt 180
tcactgttt agtttttaa cgtagtata atctgaataa ataaatgtt gccaaattca 240
atgtagaag aatgtgaca cacacctgg gtagttctgc ttgtgtttt gcatattgta 300
aaagcagtgt cacagctaaa aagaagaaa tcgttctaa cagtaaatta ttgtgcttta 360
gttgctagtt tgactgaga gttgacctt ccctgtgcag tttttgtt taaactgta 420
taaatacaa ttgtgaatg tgtctccctc ctacattgta acaatt 466

<210> 521

<211> 547

<212> DNA

<213> Homo sapiens

<400> 521

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tggggacttg tggatcattc ctctccct gcaggagctt cccaagctgg tcacagagtc   60
tcttgggcac aggttataca gacccagcc ccattcccat ctactgaaac aggtgtcca   120
caagaggggc cagggaaatg gggtttttaa caagcgtctt aaaaacact tctctatcat   180
gcagccggag agctggctgg gagccctttt gttttagaac acacatcctt cagcagctga   240
gaaatgaaca cgaatccatc ccaaccgaga tgccattaac attcatctaa aaatgttagg   300
ctctaatgg acgaaaaatt ctctgccat ctaataaca aaataaacta caaattcctg   360
acccaaggac actgtgttat aagaggcgtg ggctcccctg gtggctgacc aggtcagctg   420
ccctggcctt gcaccctctt gcatgcagca cagaagggtg tgaccatgcc ctacgacca   480
ctctgtccc cactgaacgg caactgagac tgggtacctg gagattctga agtgccttg   540
ctgtggt                                     547
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<210> 522

<211> 502

<212> DNA

<213> Homo sapiens

<400> 522

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gcatcaggct aagaccctgt gtcctccacc atgcactcac ccctagccct ggtagctga   60
cagtcagctg tggggaacac agctacaacc ctaccctggc agggacctga gagcatctca   120
ggaggggag cgcattgttg catgtgctgt gtgagtgage acaccctgtg gcacactcat   180
acacatgtgc acacacacgc actctccccg ctccaggggc tggaggtctg gctgagcccc   240
tggggaaagg tgagttcttt catctccctc ctccaggtcg gactgcctgg agtcaggtgt   300
cgaggccaca ttgtggctg cccctctttt gtagctccta taaagggcc acacctggtg   360
gatacctggt tgagcgtgtg gtctctgccc cagcctgtcc ttgtacgat cacaggcctt   420
gcttttataa caatgatgac cccggcctgt ctcatcttct gaagaggaaa agtcaaagt   480
ttgtgtggc tccatattc aa                                     502
```

<210> 523

<211> 387

<212> DNA

<213> Homo sapiens

<400> 523

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gtgatagaca ctccgggtgg acccctcgac ctcatggctt gcagagtggg tgcggccagc   60
acccgggaga tggcagtgct catagctcag gccttacaga cgattaacta tgggcgggat   120
gatgagaagt gactcgggct gaggcaaagc tgctcccaag gcctccctgg gctgctgtgg   180
gctcctgggg aggtggccct cgtggcccac gtcctatgcc agtggctcac gctctgctcc   240
tggctacccc agaggaggtt gtcacgtac agtgagtggc tggcctttta aatcgacgtc   300
tctctacca ggatttggtg tttagctgtt tctctctta atctcacgta gccttttca   360
ggtagtagc tgttctctg tcagggc                                     387
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<210> 524

<211> 320

<212> DNA

<213> Homo sapiens

<400> 524

gtgaatttc catgaatgtt ttaatatc tcattcaac attgtgat atgctactaa 60
 aaacctttc atatacatc tacctatt caagtgaatt atttaattc tttctctc 120
 ttcaaaaaa ttacaggaat gtttagtga attggattc gctatcagt cccatccta 180
 agtttgata ttcaatatc gatagataa ctgcattc ggtcatctaa gattgttta 240
 caaatgtgca aattatttag agcatagact ttataagcat taaaaaaaac taatggaggt 300
 aaaaccta aa tgcgatgtga 320

<210> 525

<211> 543

<212> DNA

<213> Homo sapiens

<400> 525

ccaggactac agaataccat ccctgtgtac cgtgtagttg ccgaagtcca gatctgcat 60
 ggcaaaacgg aggtgtgtgg ccagggtccac atctcttcc aggatgggat ggtgacgttg 120
 actccaaaca aggtgtgtg ggtgaatgtg ctccgagtg atctccagc tgagaagta 180
 gcatctgtgt ccgtgagtcg tacacctgat ggctccctgc tagtccgcca gaaggcaggg 240
 gtccagggtg ggcttgagc caatgggaag gtggctgtga ttgcagcaa tgacctgct 300
 gggaaactgt gtggggcctg tggaaactt gacggggacc agaccaatga ttggcatgac 360
 tccaggaga agccagcgt ggagaaatgg agagcgcagg acttctccc atgttatggc 420
 tgatcagtc tccaccagga acgaagatt cctgaagaag acctggtccc tctggaggtt 480
 gcggtggctg aaggatgcat catgtgctcc taccctgctc taccgcttt ctgggtcaca 540
 gag 543

<210> 526

<211> 541

<212> DNA

<213> Homo sapiens

<400> 526

tcatacttc ctctggtt tatgtattg tagactatgc agctttcat taaactgcaa 60
 gtatatataa gacagatctg aaattaggcc tgagtgtcc gatccaccac tgtactagta 120
 aataaaaaa cacctacctt ttatgtgaa aattatgtc tattgagtaa ctttagctc 180
 tttttaaaa aatgggtgaa atttaagtgt ctttttatg agaatacac atgaagagat 240
 ctgagagcaa tctcatgtg tcttccatga acctgcaatt gtttggtatg cgtcagcatt 300
 ttcaatttc caggttgat ctgagctgc tttgatcac tcaggcatac taatggattc 360
 atttagatgg gtccaagctg cagtcattga gcaataacag actacccag atactgcagt 420
 ttacgcagt cttagtaaat gagattgtg gaactaagt attagttacc tgaggcttct 480
 taagaaagtc tctttttg accagttgat gtgaaagagg gagcatgtga cacagccagt 540
 a 541

<210> 527

<211> 543

<212> DNA

<213> Homo sapiens

<400> 527

gacagtttga cttgaatgca acagcaggaa aatttgcaa gttacataat tgtatatata 60
 gtaggtttc ttaagtctc tcggttcac cttgttaatt tgtgtgtgta tctgtagtat 120
 tgcaggcttt tggagactat tcttacaggc agtatgtcag tcatcaaaga aaatgctgtc 180
 acctgccatt gttgtattg tgggtattta tagttgtatg tatgtaaatg catcagtgtg 240
 tagattgcat atcagtgtat ggtacatga catcaaaatt attttgtcc ttaacagtg 300
 tgatatgaaa agcaagtaca acctcatagg actgattata taatgaagt gttgagagta 360

tatatagtgg tattgttta ttaaacttaa actcaaataa tattttgatt aaaatttta 420
ataagacttt atgctagaaa attctttgag ctttgaatca ccagggcaaa aatgactttc 480
aactaacctt gtgaatcttt tgcagtgtac tgtgtgcaat accaagggca tagctccctg 540
taa 543

<210> 528

<211> 520

<212> DNA

<213> Homo sapiens

<400> 528

tcccagcaac aaactcctca tgataactgc acacaatctg aaaaccactg aaggacaagc 60
caaccacagc agccaagccc actccttgca gcatgggtac tgggtggcaca ccagacagtg 120
aactgcccc acaaaggcct gggcccgtgg gggctgctgc ctggcatgac atctctccag 180
atttctggct taaaaccaac ttccatccg agaagcctcc tcagtagtta ctctgctcat 240
gagacagatc tgggtcctaa gccaggaaag gtgaacagaa accacaagtg tccagccctc 300
gggtctggag tggacgttaa ttgcagcca ccagactgtc ccggcaccta cagagaatgt 360
ttcacagttc tggcatttaa atcctttgat agtggattgt gctgctgtta gccttagttt 420
cagtgttta caagtctgc ttattatctc attggtattt aggtatacaa aacagttgat 480
tattcaccac gccaatatct gggctctctg atctcatgta 520

<210> 529

<211> 358

<212> DNA

<213> Homo sapiens

<400> 529

aaatgaaaag tccacctgtg ctctctcag aaaacctttg ttgttcattg ttggccaat 60
gaatctcaa aaactgcac aaacagaaaa gtgggaaaag gataatacag actgcactaa 120
atgttttct ctgttttaca aactgcttgg cagccccagg tgaagcatca aggattgttt 180
ggattaaaaa ttgtgttca cgggatgcac caaagtgtgt accccgtaag catgaaacca 240
gtgtttttg tttttttt agttcttatt ccggagcctc aaacaagcat tataccttct 300
gtgattatga ttctctctcc tataattatt tctgtagcac tccacactga tctttgga 358

<210> 530

<211> 451

<212> DNA

<213> Homo sapiens

<400> 530

gacaagctac gtggagcctg gttcaggtcc ttttagtgag tctaccatta ccatttcct 60
gtatatccc tctgaacagc aatttgatcc acccaggcct ttagagtcag atgtcttcat 120
tgaagataga gccgaaatga ctgtgtttgt acggtcttcc gatggatttt ctagtgccca 180
aaagaatcaa gaacaacttt tgacattagc aagcatttta agggaagatg gaaaagtgtt 240
cgatgagaag gtttactaca ctgcaggcta caacagtcct gtcaaattgc ttaatagaaa 300
taatgaagtg tggttgattc aaaaaaatga acccaccaaa gaaaacgaat gagaaaaatg 360
aaaggaagtt ctgctgtcag aggcaaaaaca tctgtttatc atagacatca acatgaccta 420
taagtaaagt gcgtgtctag tgtcttctat t 451

<210> 531

<211> 440

<212> DNA

<213> Homo sapiens

<400> 531

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gactcccgag ggctagggct agagcagacc cgggtaagta aaggcagacc cagggctcct   60
ctagcctcat acccgtgccc tcacagagcc atgccccggc acctctgccc tgtgtctttc   120
atacctctac atgtctgctt gagatatttc ctacagcctga aagttcccc aaccatctgc   180
cagagaactic ctatgcatcc cttagaaccg tgctcagaca ccattacttt tgtgaacgct   240
tctgccacat ctgtcttcc ccaaaattga tcaactccgcc ttctcctggg ctcccgtagc   300
acactataac atctgctgga gtgttgctgt tgcaccatac ttcttgtagc atttgtgtct   360
cccttcccaa ctgactgta agtgccctgc ggtcagggac tgaatcttgc ccgtttatgt   420
atgtccatg tctagcccat                               440
```

<210> 532

<211> 225

<212> DNA

<213> Homo sapiens

<400> 532

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aagcagtcga ccgcacttat ggtaatcagt ttgtataac taaaataat taaataaatg   60
aataaatcca aaacaaacat gcagtacttt tgtgtatgg gattggggg ctgatttaca   120
tgtatggta ctaaaaagta ccagcatgtt aactttatta caattgtat tactttctct   180
gtagtctcta atggattcaa ttacggactc tggatattg cactt                     225
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<210> 533

<211> 436

<212> DNA

<213> Homo sapiens

<400> 533

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tcctgatgtg ccagaacttc gaccctttct ctgagagaga tgatcgtgcc tataaatagt   60
aggaccaatg ttgtgattaa catcatcagg ctgggaatga attctctcta aaaataaaat   120
gatgtatgat ttgtgttggt catccccctt attaatcat taaattctg gattggggtt   180
gtgaccagg gtgcattaac taaaagatt cactaaagca gcacatagca ctgggaactc   240
tggtccgaa aaacttgtt atatataca aggatgttct ggctttacat tttatttatt   300
agctgtaaat acatgtgtgg atgtgtaaat ggagcttgta catattggaa aggtcattgt   360
ggctatctgc attataaat gtgtgggtct aactgtatgt gtctttatca gtgatgtct   420
cacagagcca actcac                               436
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<210> 534

<211> 127

<212> DNA

<213> Homo sapiens

<400> 534

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agatacccg aagccatggc aagcaagggc ttgcaggacc tgaagcaaca ggtggagggg   60
accgccagg aagccgtgtc agcggccgga gcggcagctc agcaagtggg ggaccaggcc   120
acagagg                               127
```

<210> 535

<211> 517

<212> DNA

<213> Homo sapiens

<400> 535

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ataaaatgtc tacgtcttcc tccagtttct gagccctatg cacattggct tgtgggcttg   60
ttcttctgc caaatgatca gagagggaac attccattta ttgtagtgg atttctctg   120
```

gagggcatgt acccacacta aataccaact gctcttcctc agGttagtc cccaacatca 180
gacttggcac gtggtggaca ctaacacaca ggcactcaat gaatgagtga aggaaataaa 240
agtcaccccc cgttggtgag aagggtgccta tccccctgag tcctcagtcg aggaccagtg 300
gatgaaaggc aaggtaaaga ggccaagat aggctggctt cccccgtca aggtatagtc 360
tgcctttaag ggagttttag aaccaacatg caagacattg aaagaaatct tgcaagagcc 420
attattgact tagatccaaa acagcctctc tcattgtctaa aaaggcacag aattttgcag 480
atctgaggaa gagggatgca ttacctttt gcttctt 517

<210> 536
<211> 512
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (30)..(30)
<223> n is a, c, g, or t
<220>
<221> misc_feature
<222> (34)..(34)
<223> n is a, c, g, or t
<220>
<221> misc_feature
<222> (473)..(473)
<223> n is a, c, g, or t
<400> 536

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cgtaaacaat cctacagtgc aagcgcagcc cccgaccacg aagagttgtc ttgtcaaat 120
atcaacagtg ctgcagtgtg gaaacttgat cgttggtttt ctttaaatgc aaaactctca 180
taaaaacctt tcactttcc tgcattgat tatatgcttg atacaccaa aaagaaaagg 240
ggagggggcac caattcacct acactccagt ggctccatca ctttaaaaa tattataaa 300
atagtccaa aaatctgata tctgaaaagc aatccaagcc tgtgtaaatg ggaatcactg 360
ataagtatca tcattctgat cagcttggct tggacatgaa aaattgattc tctttatgtc 420
actccttgca cctggacaaa tcaatcccc ggtacttaag tcacttgcc aancctcgg 480
ccctgactat tgtcttgatt gctgttcctt tc 512

<210> 537
<211> 245
<212> DNA
<213> Homo sapiens
<400> 537

ctgtcacaaa tagcagcacc actttggatt gattttgctc tccaggacat cagcacatgg 60
ccctgatcag cactaccaca tccaacata agtcactgaa aacacttaa tattatgag 120
ttggtaatga caagggacat tgtataaagt actatttgc agattcatgc ctcaaaagtt 180
attataaaca gacctttatt aaacacatct tgaaagatgt agaagtcct ctatagtcta 240
gtata 245

<210> 538
<211> 435
<212> DNA

<213> Homo sapiens

<400> 538

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caacgtctaa ctggacttcc caagataaat ggtaccagcg tcctcttaa agatgcctta   60
atccattcct tgaggacaga ccttagttga aatgatagca gaatgtgctt ctctctggca  120
gctggccttc tgcttctgag ttgcacatta atcagattag cctgattctc ttcagtgaat  180
tttgataatg gcttcagac tctttgcgtt ggagacgcct gttaggatct tcaagtccca  240
tcatagaaaa ttgaaacaca gaggttttct gctgatagtt ttggggatac gtccatcttt  300
ttaagggatt gcttcatct aattctggca ggacctcacc aaaagatcca gcctcatacc  360
tacatcagac aaaatatcgc cgttgttctt tctgtactaa agtattgtgt ttgctttgg   420
aaacacccac tcact                                     435
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<210> 539

<21 1> 498

<212> DNA

<213> Homo sapiens

<400> 539

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caggaggcca tgactacatc acagccaggc ggcattccct gccacagtgg cggcttgaat   60
cataaagaaa tggataaatg gggctttagt aatcaggct tgcaggctca aagctgcaat  120
ctgcccactc tcaggtagtg agactttgtg ggcctcagac accaggaaga aagttgggat  180
acagtcattt gagttaaaaa gggaatgacc cctcagaaac ccacattagc agtgttactc  240
ttggaactgc ctttactttt aacgctctct gttctgaaaa agagggtgtt ggttacgtgt  300
gagccaacat cacgttttgt tagctgtgat ttacctttgt ccgttataaa gacttcacgg  360
agccattctg tatacaaggt gtgctcttcc caatgtagaa ggggttatgg aaaagggtgc  420
gatcctttgc tgtaaaactgg agagaccagt cccaaacaga ggggaatttt aagcccttct  480
catcacccaa ttggatgt                                     498
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<210> 540

<21 1> 474

<212> DNA

<213> Homo sapiens

<400> 540

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cctgaggggc ctcttatggg ctgggttcta cccagggtgct aggaacactc cttcacagat   60
gggtgcttgg aggaaggaaa cccagctctg gtccatagag agcaaaacgc tgtgtgccc  120
tgcccacctt ggctctgca ctcccctgct ggggtgtggcg cagcatattc aggaagctca  180
gggccttgcc tcagggtggg tcactctggc agctcagaga ggggtgggagt ggggtccaatg  240
cactttgttc tggctcttcc aggtctggag agcctttcag ggggtgggaca cctgtgatg  300
gggccttgcc tcttttgtga ggaagccgct gggggccagt ggtccccctt ccatggactt  360
tgtagtttc tccaagcagg acatggacaa ggatgatcta ggaagacttt ggaaagagta  420
ggaagacttt ggaagactt ttccaaccct catcaccaac gtctgtgcca tttt       474
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<210> 541

<21 1> 437

<212> DNA

<213> Homo sapiens

<400> 541

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tggcactcgg tggcagtcac cataaaacaa cacatcctgc acctggaact ggacacagac   60
agtagctaca cagctggaca gatccccctc ccacctgcca gactcaaga gccactacac  120
cttgagggtg ctccagccaa ttgacgaca ctgaggatcc ctgtgtggaa atcattcttt  180
ggctgtctga ggaatattca tgtcaatcac atccctgtcc ctgtcactga agccttggaa  240
gtccaggggc ctgtcagtct gaatggttgt cctgaccagt aaccaagcc tatttcacag  300
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caaggaaatt caccttcaaa agcactgatt acccaatgca cctccctccc cagctcgaga 360
tcattcttca attaggacac aaaccagaca ggtttaatag cgaatctaatttgaattct 420
gaccatggat acccatc 437

<210> 542

<211> 428

<212> DNA

<213> Homo sapiens

<400> 542

atctctgcct gtgcttatcc agataagaag accaaaatcc cgctgggaaa aaccaggcc 60
ttgacattgt tattcaaatg gccctccag aaagttaat gatttccatt tgtattgtg 120
ttgatgatgg accacttgac catcacattt cagtattcat agatgactgt cacattttaa 180
aatgttccca cttagcaggg tacacaactg gtcataattc ctgtctgtgt aattcgatgt 240
atatttttcc aaacatgtag ctattgtttg ctttgatttt tgcctggcct cctttatgat 300
gtgcagtgtc ttgaaggctg aatgaacagt cctttcagt tcagcagatc aacaggatgg 360
agctcttcat gactgtctcc agcaatagga tgatttacta taaatttcat ccaactactt 420
gtgatctc 428

<210> 543

<211> 259

<212> DNA

<213> Homo sapiens

<400> 543

atgttttgcct aatgctcgta tctccttgat tacataatgt tagtagcact gagaccccca 60
tggtaatgta acttaattat aagctatgtc actaccctcc tgtaaaatac tattggacag 120
acacagaggg acccttggct cctgtgtctg gtccacacac cacagaagct tgtattatca 180
tgtaataaa atgtactaca ttgcatgcc ttttgggttt gccttaattc ttacctcatt 240
tgcacccat cgatctgga 259

<210> 544

<211> 446

<212> DNA

<213> Homo sapiens

<400> 544

taacaggcac ctatctact cattagtga gagataattg gattacacag gcaggcttgt 60
ttactacatc cagaatgtag aaactgcttt ctcaacatc ttggttctag ctagtaataa 120
caatataatt ctttggcaga tattcagaat aacattttaa actacatttt cttagaaaat 180
tgcattcttg tagtgagcag tgtatggctt cttttgttca gaatttaaaa ctgataacca 240
atgaaagcct ttctcttat tctctaccg tcatttcat gataatctga agctaatatg 300
acaatattta aatactaagt ggtactaggg aactacaaga atactgtaaa gcttaagcca 360
ttgtatcac tgcatttag catttaataa caaaactata cagaattatg tgcataccaa 420
tgaatgtttt gtaccatcta gttaaa 446

<210> 545

<211> 563

<212> DNA

<213> Homo sapiens

<400> 545

ccatagcaac aagtgccttg cccctcagac tcaagatccc agataccaga gctggaggag 60
tcatagggca ttactggtag gcaggaaaac tgagggtcga acaaatggaa gaatgcggtg 120

atcatagacc aaagacacac agataattaa ccccatgtgt ccaccaggc caaagttctt 180
 cctgtaccc cacagtggat gtccaggcag atggccccca catgatgggg aagcagaggg 240
 catagtgtgg tttgtggga ctgttcatg tttgtagtg tgggctcaac agtgccaaag 300
 gaaacactag ggaaaagtgt gtgaaacatg ccagctagca ggaccagtaa aggcataatc 360
 aggcatttgg caaagcttgc ttttctaatt caatgatagg ttctaataagg aaattttga 420
 agattttta aaacaatgtt atagtggcac ttccccagta tggataaat aacatgcatt 480
 ctittttcaa tatactgtca tattcagatg tcattaaaat aaatggatga gtcacagagg 540
 agctatcaga tgcttcatg act 563

<210> 546
 <211> 484
 <212> DNA
 <213> Homo sapiens
 <400> 546

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 ggttacttta cactacta agaagtttaa gtaagtaagt ttcattctaa aatcagaggt 120
 aaatagagt cataaataat tttgttttaa tcttttgtt tttcttttag acacattagc 180
 tctggagtga gtctgtcata atatttgaac aaaaattgag agctttattg ctgcatttta 240
 agcataatta atttgacat tatttcgtgt tgtgttcttt ataaccaccg agtattaaac 300
 tgtaaatcat aatgtaactg aagcataaac atcacatggc atgtttgtc attgtttca 360
 ggtactgagt tcttacttga gtatcataat atattgtgtt ttaacaccaa cactgtaaca 420
 ttacgaatt atttttttaa acttcagttt tactgcattt tcacaacata tcagacttca 480
 ccaa 484

<210> 547
 <211> 402
 <212> DNA
 <213> Homo sapiens
 <400> 547

acatttgata gttttcacc ccttggtttt attttatata aacttttgtt ttcagcagt 60
 tctgaacttt ttagtattt ataatgggtc caaaaatgc ctgttcaga agttttgaa 120
 ttcagtgc atctcttga tttgtctggg ttaaaccat tcttttga tgaatgttt 180
 tgacttagga atcatttat gtactgttc tacctggatt gtcaacaact gaaagtacat 240
 attcatcca aatcaagcta aaatttattt aagttgattc tgagagtaca ggtcagtaag 300
 cctcattatt tggaatttga gagaagtata ggtgatcgga tctgtttcat ttataaaagg 360
 tccagttttt aggactagta cattcctgtt atttctggg tt 402

<210> 548
 <211> 503
 <212> DNA
 <213> Homo sapiens
 <400> 548

agttagaaca tttgctgtca gccacatatt gagatgacac taggtgcaat agcagggata 60
 gattttgttg gtgagtagtc tcatgccttg agatctgtgg tggcttcaa aatggtggcc 120
 agccagatca aggatgtagt atcctatagt tcccagggtga tattttctt attagaaaaa 180
 tattataact catttgtgt ttgacactta tagattgaaa ttcttaatt tattctaaat 240
 tttaagtgg tcttgggttc cagtgtttaa tgtgttgtt gttttggat ggtgttacat 300
 attatatgtt ctagaacat gtaatcctaa atttaccctc tgaatataa tccctggatg 360
 atattttta tcataaatgc agaataatca aatacatttt aagcaagtta agtgcctcc 420
 atcaattctg tattccagac ttgggaggat gtacagtgc tgttgtgtga tcaaacatgt 480

ctctgtgtag ttccagcaaa tea

503

<210> 549

<211> 440

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (331)..(331)

<223> n is a, c, g, or t

<400> 549

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gtggatgtcg cagttaatgt gtaataagac attatttccc ctgcataatg tacaacagca 120
ttgaaatgac acattaagcc tagcatcaca ttgtatagta cagtactca caaacccctc 180
aaggctaccc taatcattaa cattaatatt tgtttaaaag caaatcacgc atttatctat 240
tgaaactact taaatgacgg caaaccagga atgacagatg gctgtgtcag caatggcctt 300
aatgtgttcc ctgcaagtgg tctcctatga ntagaactgc gtctcaaat gcactctctt 360
cagggtctta atattctgtg ttttctctct gtatttgtaa aacattataa cacattaatt 420
tcctatctct acacatttgg 440

<210> 550

<211> 505

<212> DNA

<213> Homo sapiens

<400> 550

gtcaaggcat tgtatgttgc ttctgtggtt attattctgt gatgcttaga ctacttgaac 60
ccataaaactt ggaagaatct ttgagcaaat ttctcagtt gtctgtatga cttcagtata 120
ttcctgggaa tgccatagga tttttgtgc ttgatacatg gtatccagtt tgcatagtat 180
cacttctttg taatccagtt gctgttaaga atgatgtact ttaaaggaaa agagaaaact 240
gcatacacagt cccattctcc agtgtccatg caatgaattg ctgagcattt aggaagcagc 300
accaagtcta ttacaggcat ggtgtgaaac ttgatgtttg acctgtgatc aaaattgaac 360
cattgtacag ttggcttct gtttgctca aaatatgtag aattgtgggt gatgattaat 420
ttgcgagact aactttgaga gtgtaacagt ttgaagaaa acattgaatg ttttacaat 480
gaaggggctt cacggaatgt tacaa 505

<210> 551

<211> 476

<212> DNA

<213> Homo sapiens

<400> 551

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tatctacttc tctctctctg aagatgtcaa atcgtgggtt agatcaaata tatttcaagc 120
tataaaagca ggaggttatt tgtgcagggg gctggcatca tgtatttagg ggcaagtaat 180
aatggaatgc tactaagata ctccatattc ttccccgaat cacacagaca gtttctgaca 240
ggcgcaactc ctccatttc ctccgcagg tgagaaccct gtggagatga gtcagtgcca 300
tgactgagaa ggaaccgacc cctagttag agcaccttgc agttccccga gaactttctg 360
attcacagtc tcattttgac agcatgaaat gtctcttga agcatagctt tttaaatatc 420
ttttccttc tactctctcc tctgactcta agaattctct ctcttggaat cgcttg 476

<210> 552
<211> 493
<212> DNA
<213> Homo sapiens
<400> 552
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aaaactgtgt ctatgcaacc ttccaagtgc ggagtgtcaa ccaactggac gggagagagt 120
actgctccta ctccaggact ctcaaaagc tgatgagctg tacttcagaa aaaaataata 180
atttccatgt ttgtatata tctgacaaaa ctggcaacat cttacagact actgacttga 240
agacaacctc ttatatatt ctctatttct gggctgatga attgttttc atctgtcttt 300
tcccccttca gaattttcct tggaaaaaaa atactagcct agctgggtcat ttcttgttaa 360
ggtagttagc aattttaagt ctttcttgg tcaactttt ttaatgtga aaagttaggt 420
aagacacttt ttactgctt ttatgtttt ctgtctgtt ttgagaccat gatggttaca 480
cttttggttc eta 493

<210> 553
<211> 481
<212> DNA
<213> Homo sapiens
<400> 553
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tgagaactgg tacteteagt gtgttctggt catcttgtgg ctagtttga gaagcagggtg 120
tgtctcttgc ctctgcttgc ctctactgc acactcagca cccaggactg gaatcaccga 180
ctactgaate tctcatatgt attgctgcta cttcaagctc ctccactga aaccttatga 240
ttttccaagg ggagatggga cagtgtcatc taaatattcc gaatgtttgg ccttctgaga 300
aaagagcttc tagtaattga accatgggtt tcccagcttc tggagggttg gccgtgggct 360
gtgtacatgt gtgtgccag gggtagtgt ttctcaggat tctaacgat tcaaattacc 420
gttgagtata tataaagaat cgagtctctg tatggaagaa caaatgtgtg cattcacccc 480
c 481

<210> 554
<211> 377
<212> DNA
<213> Homo sapiens
<400> 554
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tttaactac tgattgaatg ttaatggtca atgetageae aatattecta tgctgcaata 120
cattaaaata actaagcaag tatatttatt tctagcaaac agatgtttgt ttcaaaaata 180
cttcttttc attattggtt taaaaaagc attatcctt tatctcacia ataagtaata 240
tcttcagtt attaaatgat agataatgcc ttttgggtt tgtgtggtat tcaactaata 300
catggtttaa agtcacagcc gtttgaatat attttatctt ggtagtacct ttctccctt 360
aggaatatac atagtct 377

<210> 555
<211> 482
<212> DNA
<213> Homo sapiens
<400> 555
gagctgactg acatatctt aaatactttg tactaacttt ateacaetta ctgtgtcata 60
gaatatcata cagtttatac gctcatagtt ctctgtgaa cacttcaaac ategetaage 120

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attgatctg gccatgtata tggtagctgt gttttaattt gagaatcttg agggtagagc 180
cacaaatttc aattcttaca ttccatttg caaagtgact agagaaaaag aaatcagctt 240
aaatgaggta ttaagtaatg ttagagttg taggtattaa ctagaatata aatccttaga 300
aattgtcttt ataccttcaa aaattatact atgcatttat catagaaatg tgattacaaa 360
gaagtctgac taccatgtct ttaacatat ggcatctctc aacttttctt ccttatgggg 420
ctacatttgt tcattccag cagtagcata aacttacggt gacatggtag acttgtctct 480
aa
482

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<210> 556
 <211> 515
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (89)..(89)
 <223> n is a, c, g, or t
 <220>
 <221> misc_feature
 <222> (110)..(110)
 <223> n is a, c, g, or t
 <220>
 <221> misc_feature
 <222> (227)..(227)
 <223> n is a, c, g, or t
 <220>
 <221> misc_feature
 <222> (250)..(250)
 <223> n is a, c, g, or t
 <220>
 <221> misc_feature
 <222> (276)..(276)
 <223> n is a, c, g, or t
 <400> 556

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aattgccaca ttttctatg gcattaaaaa tttacaaaa acataatttt aatggctata 60
ttatattcca ttaatggat gcaactcang ttatttaac cattcccatn gttgtaact 120
atttaggttg ttctaattt tcattattat aaagttgcag aaatttggtg tacataaac 180
tgtctccata taattgatta ttaggatata ttcccatgaa ggattcnttt ttttaaaaaa 240
atgtgaaatn tcacttgta ctacacctt tcatgnaaag ggatttcctg ctttgtact 300
gcatgggtgg cagttgtgag gaaaagccag tcaaatgacc ttttacaaa agaatgcag 360
tggtcacttc agttgagagt gactttttaa tacaacaaga tcaactagaa gaattcaact 420
gtctcaagaa tcaaggtacc ccaatatatc tcgcaattcc aaactttgtt tgagggactc 480
gttatccagc tcttggtagc cacacctgca atgta
515

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<210> 557
 <211> 430
 <212> DNA
 <213> Homo sapiens

<220>

<221> misc_feature
<222> (43)..(44)
<223> n is a, c, g, or t
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<221> misc_feature
<222> (46)..(46)
<223> n is a, c, g, or t
<220>
<221> misc_feature
<222> (120)..(120)
<223> n is a, c, g, or t
<220>
<221> misc_feature
<222> (358)..(358)
<223> n is a, c, g, or t
<400> 557
gggtccatct gtagcaaatg ggttgagtgt gtcagtatgt ggnntnggtt acttgttatt 60
cgccaggaat caccgagata ggctgccacc ctattaggtg atacctgttt aatatgttgn 120
ccaggtagac tagtagttgc atcagtttgc tgtaacaagt aaccagttag gtaacacagt 180
ggtgaagcag gtcaggggag gtcaggagga tgtctgagag aaagaagtcc gggagatgaa 240
tggctgtcta ggaaggagga tgcagtgcga cggttagtgt ttgagcagag ggcagacttg 300
taaagtacct gtagtgaaaa gaatgtgggg acccgattag cagaaagggtg ttgcacnta 360
ctttatacaa aatacagaat actttatart ggaagtgaaa gaaatgaacg tggactttta 420
cacatgtgca 430

<210> 558
<211> 437
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (137)..(137)
<223> n is a, c, g, or t
<400> 558
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ctctcatagc gtagacctag ggaagggatg ggaagattgc ccagtccccg atggctgcgc 120
acacaggagg cggcggngca caaggcaagt gagtttgcac tgcagcccc agaccgtaag 180
cttggctaca ctgatgtttt tctttactaa ggatactatt caaaaattaa catttcac 240
tcagtaagtt tttagaacat caaaatgttt tctgagctcc aagtggctag gttgtaaaag 300
ttttataata atttgaatt aaaatacatg atacatatta atccattaaa gactagtggg 360
aatgtatcag ccagagtagc aagtaatttt tgttttataa atcatagtat ctgtcatctt 420
gcagtattac caatgct 437

<210> 559
<211> 519
<212> DNA
<213> Homo sapiens

<220>

<221> misc_feature
 <222> (49)..(49)
 <223> n is a, c, g, or t
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 <221> misc_feature
 <222> (61)..(61)
 <223> n is a, c, g, or t
 <400> 559

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 aataccattc tatgagaaag agtagttata tgcccagact gtattaattt actttagaaa 180
 ctaatgtttg aagtaatgga aaaaatttta aattataaag ctaagggtgca ataacatttg 240
 ctacttattt atagaattat ttgaagaatt ttgttttga agtaatgctt taaggagtat 300
 aagatattca agataaatta tactataaaa tgattttatt gaaagtgaa ggttacacaa 360
 attgttttag gtatgagcag aagagggtta ggtatttcta aaggtaacat atagtcaaga 420
 gtttcctcaa aatagttatt tggagaagaa tcagaatgtc tgtgtatttc ttgtctgttt 480
 ctatgtgtgc ttatagctct gactaaatgt gtttaccta 519

<210> 560
 <211> 412
 <212> DNA
 <213> Homo sapiens
 <400> 560

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 agtactgatt atgaccagat tctacctgat tgttattctt ggcctgaaga ggtgcagaaa 120
 atacagacca aagttgacca gtaggataat agcaaacatt tctaactcta ttaatgaggt 180
 ctttaaacct ttcataattt ttaaagggtg gaatctttta taatgattca taagacactt 240
 agattaagat ttactttaa cagtctaaaa attgatagaa gaatatcgat ataaattggg 300
 ataaacatca catgagacaa ttttgcttca ctttgccctc tgggtattta tggtttctgt 360
 ctgaattatt ctgcctacgt tctctttaa agctgttgta cgtactacgg ag 412

<210> 561
 <211> 433
 <212> DNA
 <213> Homo sapiens
 <400> 561

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 ctctttgcac caaaaatggt ccagatagac tcttttaag gatcttggct gcttttact 120
 agaagggtgc ttttatgagc atatttatac tgctg'aagga tgagtgttaa ttttaattaa 180
 ctttgccgtt ttgtagagaa aactattcac aagataaatt ccaagctttt tcacctgtca 240
 ggcattgcata tttaatatc tgtttggata gtcagaagta gaatcataaa ggtaaaatat 300
 gagttgttac ttgtttctt cgatgtcata tttatgtgt aatatatatg taaagggcca 360
 ttcttaagtt ctctccttaa acttaatgct gtcaagtgtt agatgtgtgc atgtgaactt 420
 gttgcactgc aga 433

<210> 562
 <211> 490
 <212> DNA
 <213> Homo sapiens
 <400> 562

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 attatatttt gaacaactcg aatcactcat ttgtttccat attaaaaatca caaactcacc 120
 cattaatgta gataaagcac tgtttgata tgagatgtag caaattccaa tacattattg 180
 gacttccatt tggaatcata tgggatactg ctggcttat cctgtccctc ctccaggtag 240
 agagaccaca tgcaggctca acataacata agctagaaaa attagatgac tgaatttcta 300
 tggcatattg ataataaaat tcattccatt tgcgtattgt ctgaaatttt ctagaatact 360
 aataaaatac atactataga ttctttatta gtgaagtatg cactaatcaa tactttgaac 420
 acaaaagcctg tgttactgat ttggcggttt tgtgaagaaa catttatctt tgtacgttct 480
 tctattgtgc 490

<210> 563

<211> 475

<212> DNA

<213> Homo sapiens

<400> 563

cagaccggca gtcacatgg cagtttcagc gttcaaacag caatagctca agtgtgataa 60
 ctactgagga taataaaatc cacattcact taggaagtcc ttacatgcaa gctgtagcca 120
 gcccttcagc accactgcag gataaccgaa ctcaaggctt aattaacggg gcactaaaca 180
 aaacaaccaa taaagtcacc agcagtatta ctatcacacc aacagccaca cctcttctc 240
 gacaatcaca aattacagta agtaatatata ataactgacc aGgtcaccc tcattccagtc 300
 catactgata tttttgcaag gaactcaatc cttttttaat catccctcca tatcccccaa 360
 gactgactga actcgtactt tgggaagggt tgtgcatgaa ctatacaaga gtatctgaaa 420
 ctaactgttg cctgcatagt catatcgagt gtgcacttac tgtatatctt ttcatt 475

<210> 564

<211> 306

<212> DNA

<213> Homo sapiens

<400> 564

gaggcccaga taatgagctg agattcagca tccccctggag gagtcgggggt ctcagcagaa 60
 ccccaactgtc cctccccctg gtgctagagg ctgtgtgca cgtgagcgtg cgagtgcacg 120
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<210> 565

<211> 490

<212> DNA

<213> Homo sapiens

<400> 565

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 attggccaga 490

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<212> DNA
<213> Homo sapiens
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<210> 567
<21 1> 501
<212> DNA
<213> Homo sapiens
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cagtactgg gtcaccagag tttagagag tatttcgggc acaacaaaac tgtgtggagt 180
ttatcctat attcataatt acattgtgga tggctgggtg gtatttcaac caagttttg 240
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<210> 568
<21 1> 474
<212> DNA
<213> Homo sapiens
<400> 568
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attatttaca aaattttaac actaacaaa caatgcagat ctagggatg attaaaggca 180
gcatttgatg atagcagaca ttgtacaag gacatgggtga gtctattttt aatgcaccaa 240
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<210> 569
<21 1> 444
<212> DNA
<213> Homo sapiens
<400> 569

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 accagaaggc actgcctgca ggaagaagat gatctgatgg ccgtgggtgt ctgggaagct 180
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<210> 570

<21 1> 464

<212> DNA

<213> Homo sapiens

<400> 570

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 aaaacaagtg tgacttcgag gaccaaagaa attgtcagct atacatttat ctttatgaac 180
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 gttttactct agtctttagt acttcaaaa taccttttca tatccatgat cttagtcca 360
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<210> 571

<21 1> 499

<212> DNA

<213> Homo sapiens

<400> 571

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<210> 572

<21 1> 468

<212> DNA

<213> Homo sapiens

<400> 572

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 atggagcagc agtaccacc catgaaaacc atgaaggggc cttttggctg aaattcccca 180
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 taaataataa agaaacaaaa ctatctgcc ttcccttcc agtgggttcc tctggtgctg 360
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tgggtacagg ggcataacc tgtaatccta gctattcaag gggctgag 468

<210> 573

<21 1> 406

<212> DNA

<213> Homo sapiens

<400> 573

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gtgctgatgg agaaggagct accaggcttc ctgcagagtg gaaaagacaa ggatgccgtg 180
gataaattgc tcaaggacct ggacgccaat ggagatgccc aggtggactt cagtgagttc 240
atcgtgttcg tggctgcaat cacgtctgcc tgcacaagt actttgagaa ggcaggactc 300
aatgatgcc ctggagatgt cacagattcc tgcagagcca tgggtccagg ctcccaaaa 360
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<210> 574

<21 1> 535

<212> DNA

<213> Homo sapiens

<400> 574

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tactatagtt tttgttttc tacctgcaca cccaccagaa gagcaciaag caaggccatt 180
gcaacaggca tttaaaaatt attatcaaac atgcacatgc ttgtacacac acacacacac 240
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agtggttct ctctgataag gggctgaaag attctgcac acacatctc tgagacctac 480
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<210> 575

<21 1> 401

<212> DNA

<213> Homo sapiens

<400> 575

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gaggggctga cttaaatcca tgtaggaaag taaaatggaa ggaaattggg tgcatttcta 120
ggacttttct aacatagtc tataatatag tgttaggtt cttttttt tcaggaatac 180
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tggtattctg ggcagcttc taatatgctt tacaatctgc actttaactg acttaagtgg 300
cattaaacat ttgagagcta actatattt tataagacta ctatacaaac tacagagttt 360
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<210> 576

<21 1> 396

<212> DNA

<213> Homo sapiens

<400> 576

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attgagtttt tacaagatgt atttgttga gacttaacac ttcttacgca atgcttctag 180
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 ttggttctgt actgttactg ggccttgagt ctgggcagct gtcccttgct tgcctgcagg 300
 gccatggctc aggggtggtct ctcttggggg cccagtgcag ggtggccaga ggtgtcacc 360
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<210> 577

<211> 318

<212> DNA

<213> Homo sapiens

<400> 577

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 ttgacaagtt taaaggctgt gtcattgggc catgtttaag tgtactggat ttaactacct 180
 ttggcttaat tccaatcatt gttaaagtaa aaacaattca aagaatcacc taattaattt 240
 cagtaagatc aagctccatc ttatttgta gtgtagatca actcatgtta attgatagaa 300
 taaagccttg tgatcact 318

<210> 578

<211> 411

<212> DNA

<213> Homo sapiens

<400> 578

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 ctgggtacaa gaacctgaat caaaggacgt tccagcggta gaaatcacc acacctctg 180
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<210> 579

<211> 201

<212> DNA

<213> Homo sapiens

<400> 579

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 acaagttctc tgctccatg acgcgccagg cacagttctg caagtatatt gtgaatgtat 180
 tgttctagtg ggatacaaa a 201

<210> 580

<211> 336

<212> DNA

<213> Homo sapiens

<400> 580

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 cagtcacatc agcagctgac tgaatcag cactgcctga gtagtttga tcagtttaac 180
 ttgaatcact aactgactga aaattgaat ggcaataaag tgcttttgc tccagagtat 240

gcgggagacc ctccacctc aagatggata ttcttcccc aaggattca agatgaattg 300
aaatttttaa tcaagatagt gtgctttatt ctgttg 336

<210> 581

<211> 521

<212> DNA

<213> Homo sapiens

<400> 581

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aaaatccacc tataattggt caaagtgtt gagaatata ttttagtaa tgcattgcaa 180
aattttcta gcttccatcc ttctccctc gtttctctt ttttggggg agctggtaac 240
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aaaatatttt gctgctagt aactatgaac agatagaaga atcttacaga tgcgtctata 420
aataagtaga aaatataaat tcatcacta aaatagcta ttttaaaatc ttttctctat 480
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<210> 582

<211> 484

<212> DNA

<213> Homo sapiens

<400> 582

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ggattaaaga ttaaggcctt aatctgttta gattatctt aatctcatg aaatcgtgaa 180
ataagacaag aatagtgtt cagctgtagg ccatttaca gtaattgcc cataaattgt 240
agcatttatt gacctgaagt actaagctaa ttgtcttgac tactcaaagc cctgaattg 300
ttgcaactt tcccccttgt gttgtgtagc cctaactgca tttagctgt tgtctgatgc 360
ctccagtagg acacctccga tggagctttg atttctgagc agcgaaagct ccttctctaa 420
gatgcatctc gcataggctg cctatgatga aggaccgtgc acctccactc caacagagtg 480
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<210> 583

<211> 503

<212> DNA

<213> Homo sapiens

<400> 583

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tttttttt ttacgtaga atgtgggata aacttgatga actccaagt cacagtgtca 240
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cagcctcaa gctgcagtg tttagattgc tcaaaaaa gaaaaagtt tgccttttc 420
gatatagtag ccttcttgc atattaaat gttaccaca atgtccatt tctagttaag 480
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<210> 584

<211> 465

<212> DNA

<213> Homo sapiens

<400> 584

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ggaagtgcgt gtgttgggcc aggtaggata cgtacacctc ttgcctcaga gcagcctcat 420
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<210> 585

<211> 360

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

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<223> n is a, c, g, or t

<400> 585

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caagtggctc tttttaaaa ctaaaaaaaaa cttgaattg gctattttt taatgcaata 180
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<210> 586

<211> 520

<212> DNA

<213> Homo sapiens

<400> 586

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cgaagctaac atcgggtcct ccccgacctt gctgactagg cacatgggac gcaaaggagg 480
gaggggaagca aggccttgcc tggcgagtgt tcatgtggtt 520
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<210> 587

<211> 468

<212> DNA

<213> Homo sapiens

<400> 587

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taaaccagtc cactgttata cccggggcac tctaaccatc acaatcaatc aatcaaattc 60
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<210> 588

<211> 523

<212> DNA

<213> Homo sapiens

<400> 588

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 tatactcatg gaagagataa gctaaaggagg ggacaataat gagaaatgtt ggtgtgcttt 180
 tctaagcatt taaacataa ttgccaattg aaaccctaaa tatgtttaca taccattaag 240
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 ttgtacctt aaattgttcg attacgtcat caaaagagat gaaaggtatg tagaacaggt 420
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<210> 589

<211> 465

<212> DNA

<213> Homo sapiens

<400> 589

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<210> 590

<211> 532

<212> DNA

<213> Homo sapiens

<400> 590

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 tcccgctga actcaagtag tcattcatat aaatttgaac acacctgctg tgccctagaca 480

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<210> 591

<211> 129

<212> DNA

<213> Homo sapiens

<400> 591

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ttaaatgcc 129

<210> 592

<211> 476

<212> DNA

<213> Homo sapiens

<400> 592

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<210> 593

<211> 537

<212> DNA

<213> Homo sapiens

<400> 593

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ccctactatt tcaaatatat tgtacttttt tatttctgta agccaactgt gtgccatttt 420
cactggactt taaatctag actttagtga tgtctacatt gtaaatgac ttttgggat 480
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<210> 594

<211> 543

<212> DNA

<213> Homo sapiens

<400> 594

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aca 543

<210> 595
<21 1> 568
<212> DNA
<213> Homo sapiens
<400> 595

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aaaagttcat gaagtaccaa tgcaagtgtt ttatTTTT tctttttcc agcccataag 180
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agtatttttg aaaaagtgtc ttcatcttat attgtgtaat tgtaactaa agataccgtg 480
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<210> 596
<21 1> 360
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (250)..(250)
<223> n is a, c, g, or t
<400> 596

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cagtatcgag gcttgtgatg acgaatcctg ctctaaaata cacaaggagc ttcttgttt 120
cttattagcg ctgagaaaga agtcagttaa cgtcacccaa aagcacaaaa tggattttag 180
tcaaatattt attggatgat acagtgtttt ttaggaaaag catctgccac aaaaatgttc 240
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<21 1> 538
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (314)..(319)
<223> n is a, c, g, or t
<400> 597

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ctctccacg tttttctgc aattaataat gtcatttaaa aaatgagcaa agccttatcc 240
gaatcggata tagcaactaa agtcaataca tttgcagga ggctaagtgt aagagtgtgt 300
gtgtgtgtgt gtgnnnnnnc gtgcatgtgt gtgtgtgtgt atgtgtgtga ataagtcgac 360
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aacaccacaa agategcac tgtaaacag gtacaagttg acatgaggtt agttaattg 480
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<210> 598

<211> 521

<212> DNA

<213> Homo sapiens

<400> 598

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taggatattt ctacaaggtg ttcattttgt cacaagctgt agataacagc aagagatggg 180
ggtgtattgg aattgcaata cattgttcag gtgaataata aaatcaaaaa cttttgcaat 240
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ttttacaggc aaagaggcga attgtagaat tgttagatgg caatagtcac taaaaacata 360
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tatggccgta tcaaattgga gctgaaaaaa ctatatttga gcaactgtct ctcttggaat 480
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<210> 599

<211> 532

<212> DNA

<213> Homo sapiens

<400> 599

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tctcaagct aaggacaaaa tccagctaac ccagtccctc ggcccaggcc tccttcgtg 180
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tagccgtatg taaacagaa tctcacctca gtctcctgga gggagatgtt taagaggggt 420
taacacatca gatgggaggg tcagcccgtg gacctctaag gtatcttcta acctagaaac 480
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<210> 600

<211> 447

<212> DNA

<213> Homo sapiens

<400> 600

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cccatttctg tgagaccctg tatttcaaat ttgcagctga aaggtgcttc tacctctgat 360

ttcacccag agttggagtt ctgctcaagg aacgtgtgta atgtgtacat ctgtgtccat 420
gtgtgaccat gtgtctgtga ggcaggg 447

<210> 601
<211> 447
<212> DNA
<213> Homo sapiens
<400> 601

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<210> 602
<211> 547
<212> DNA
<213> Homo sapiens
<400> 602

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tgatagctgt cccatctggt catgtggtg gactagact ggtggcaggg gcttctagct 180
gactgcaca gggattctca caatagccga tatcagaatt tgtgtgaag gaactgtct 240
cttcactaa tatgatagcg ggaaaaggag aggaaactac tgcctttaga aaatataagt 300
aaagtgatta aagtgtcac gttacctga cacatagttt ttcagtctat gggtttagtt 360
acttttagatg gcaagcatgt aacttatatt aatagtaatt tgtaaagtg ggtggataag 420
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ttctgag 547

<210> 603
<211> 543
<212> DNA
<213> Homo sapiens
<400> 603

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atg 543

<210> 604

<211> 473

<212> DNA

<213> Homo sapiens

<400> 604

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gggcaccaga gaaccacaaa taggacaaaag cgaaagaaga aacagcctac ctcatactc   120
tcaagccagt tgaagaaacc ttgccttttc agcttgaccc tgcaatataa catgcacagg   180
cctgtctgtg aatcaggact gaatgtgaaa gggaagtatt gagtgaggac attcccaaaa   240
ccaaaggaca actgaggaga ctgccagca cataatgaat aaataagaaa atgagtgagg   300
agtattaac atcatttga aaaaagattt cccattcact tgatattgtt tgttactca   360
tttagtcatt aaaagtga ttaataaaat ctgaaaatgt tatataataa ctttaaaaag   420
ccaggttaatt aataatctgc actgatatta catccacagt accacagtat tta   473
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<210> 605

<211> 465

<212> DNA

<213> Homo sapiens

<400> 605

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gcccgtaaac ggatttatca ccaagacacg cctgcatgta agaccagaca cagggcgtat   240
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ttgttaaaa gctgcttaca tggacttctg tctttaaaa cgttccctt ggctgtggcc   420
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<210> 606

<211> 373

<212> DNA

<213> Homo sapiens

<400> 606

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caatggctcc ccactctaag cactgcctcc cctactccc gcatctttgg ggaatcgggt   300
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<210> 607

<211> 364

<212> DNA

<213> Homo sapiens

<400> 607

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gaagctgtgc agtataaaac tcaagttgtt gctggaacaa attactacat taaggtacga   180
gcaggtgata ataaatatat gcacttgaaa gtattcaaaa gtctcccgg acaaatgag   240
gacttggtac ttactggata ccaggttgac aaaaacaagg atgacgagct gacgggctt   300
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tagcagcatg tacccaaagt gttctgattc ctcaactgg ctactgagtc atgaccttg 360
ctga 364

<210> 608

<211> 477

<212> DNA

<213> Homo sapiens

<400> 608

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agagaaggca gctacggcta ctctacatc ctggcgtggg tggccttcgc ctgcaccttc 420
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<210> 609

<211> 480

<212> DNA

<213> Homo sapiens

<400> 609

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<210> 610

<211> 523

<212> DNA

<213> Homo sapiens

<400> 610

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ccagaggaag actgccctgg agttctgtgg agagacttgg agctctctct gcacattctt 180
cctcagcata gtgcaggaca cgtcatgcta atgaggtaaa aagagaacgg gttccttaa 240
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agcatgtatt tccatggccc acacagctat gtgtttgagc agcgaagagt ctttgagctg 480
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<210> 611

<211> 556

<212> DNA

<213> Homo sapiens

<400> 611

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gcaacaggaa tcaagagact gccctccttg tccaccacc tatgtgccaa ctgttgtaac 180
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ccttcacccc agtggccact cagcttcta cccacacctc tgccagaaga tcccctcagg 540
actgcaacag gcttgt 556

<210> 612

<211> 193

<212> DNA

<213> Homo sapiens

<400> 612

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ctgagcacga aggcaaaccc tactgcaacc acccctgcta cgcagccatg ttgggccta 180
aaggctttgg gcg 193

<210> 613

<211> 402

<212> DNA

<213> Homo sapiens

<400> 613

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gagcagagcc agggcctggc gagctggcgt ggagcccaca ggattcagca gcattggacag 360
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<210> 614

<211> 536

<212> DNA

<213> Homo sapiens

<400> 614

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<210> 615

<211> 548

<212> DNA

<213> Homo sapiens

<400> 615

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<210> 616

<211> 371

<212> DNA

<213> Homo sapiens

<400> 616

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<210> 617

<211> 545

<212> DNA

<213> Homo sapiens

<400> 617

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cccttactt aattatattg tagtgtgcag ataacaaaac tgctaccttc tcatccaagt   360
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taataaaaaa agttggattt ttgtgtatgt ctgtcacatt atttagagag aagtaatctt   480
gtaaaaatgt ttgtaaaaa acaaaaaagt attgtaaata gtcttgatat tctgtgactc   540
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<210> 618

<211> 423

<212> DNA

<213> Homo sapiens

<400> 618

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ccaccgctcc cgcggcaagc cagcccgctc aacggaagcc aggccaactg ccccgctct 360
tcagctgttt cgcattccac gccacccac tgagagctgc tctttgggg gaatgttgg 420
caa 423

<210> 619
<21 1> 543
<212> DNA
<213> Homo sapiens
<400> 619

taacatcagc tgcctatgcc tatgataagg tagcagtctg cattcttatg gccattagat 60
gttacaaact ccttgctct aaagtcagat catgaaggga taggtgttca tctaaggta 120
cagttatgtt accgaaacac aaaactgcc aaatcttact ctgctgttat gaatgttac 180
catcagcatt attttatcat ttaatatgtg ctactgatt gttactgta gcttcagcgc 240
gtgccaagca gttgacttaa taggatcatc ttgtgaattt gttacgtga tgccaagcat 300
caagtcatgt ttcttttagt gtgtgtgctt acacagggtg taaacagttt ttctctatt 360
taaactgagc ctcttttta atatattccc gaagagatat gtaaataagc tctcagagtt 420
tctgtgatga ttgttgagc ctgctggac aagtggttg ttgtgtgca aaccaaactt 480
tctttacca gtgcaataga ttgttgac tgctgtgtc ttttatgac ctgttgcct 540
ttt 543

<210> 620
<21 1> 406
<212> DNA
<213> Homo sapiens
<400> 620

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cttagtttt ataaatgag aattctgact tacttaacca ggttgggat ggagatggtc 120
tgcatcagct tttgtatta acaaagttac tggctctttg tgtgtctcca ggtaactttg 180
cttgattaaa cagcaaagcc atattctaaa ttactgttg aatgcctgtc ccagtccaaa 240
ttgtctgtc gtcttattt ttgtaccata ttgctcttaa aaatcttgg ttgtacagt 300
tcataattca caaaaagtt catataattt aaagaaacac taaattagtt taaaatgaag 360
caatttatat ctttatgcaa aaacatatgt ctgtcttgc aaagga 406

<210> 621
<21 1> 530
<212> DNA
<213> Homo sapiens
<400> 621

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ccaagtcccc gtggaggttc tgtattttaa gaaacagtgc gttgagtga cagattttat 180
ttatgcgtaa tttaattggg tctgtaaata ctggtgcact tctacgact ttttgagac 240
atgggatcca attttaatat taacttttaa tgggtgatggg gtaatctata acacatcata 300
aggttttatt catatatata cagggtatta agaattaaga ggatgctggg ctctgttctt 360
ggcttgaag attctattta attgaaactc tctgttcaga aagcaataac ttgtctcgt 420

tcctgttggg ctgaacccta aggtgagtgt gcagtacagt gtgtgtgggt gaaatggaga 480
tttgaattg aactctctgc ctgtaaatgt tcccaaata attgttgtgt 530

<210> 622

<211> 434

<212> DNA

<213> Homo sapiens

<400> 622

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ctgggacctt ctgtgggtga cgcacacctt gggatggggc tagtagagcc ttcaggcgcc 180
ttcgggcgtg gactctggcg cactctagt gacaggagaa ggaacgcctt ccaggaaact 240
gtggactagg ggtgcaggga ctcccttg caaggggtaa cagaccgtg gaaaactg 300
tcacttcag agctcgggtg ctacacgct gtctgcccc ggttgcgga cgagagaaat 360
cgcgccccc aagcatcccc catccctgc aggtcggggg ctgggcatgc tgcacttaa 420
cctttgtat ttat 434

<210> 623

<211> 417

<212> DNA

<213> Homo sapiens

<400> 623

ggagtttgt gacctatga acagcaaaga atccaagttt acctcaaga tgaatccagg 60
tgatgtgatt acttttgata actggcgctt acttcatggc cgacgtagct atgaagcagg 120
aactgagata tcccgccatc tagaaggagc ttatgctgac tgggatgtgg tcatgtcaag 180
gcttcgtatc ttaaggcaga ggggtggagaa tggaaactga agtcacctgt agataattt 240
aataagattc caatgacctt atttgtgag atatggcaca ttattcacag accatgatct 300
ttgtgattta catataattt ccttaacaat gaacatgtaa cttctctcac aagagtactc 360
ttactttgt aatcatatac aatgtcaact ttttagatgt ttcaccactc ttttgca 417

<210> 624

<211> 317

<212> DNA

<213> Homo sapiens

<400> 624

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ctccgggggc ccgctggtgt gcgggggcgt gctcgagggc gtggtcacct cgggctcgcg 120
cgtttgcggc aaccgcaaga agcccgggat ctacaccgc gtggcgagct atcggcctg 180
gatcgacagc gtctggcct agggtgccgg ggctgaagg tcagggtcac ccaagcaaca 240
aagtcccag caatgaagtc atccactcct gcatctggtt ggtctttatt gaggacctac 300
tatatgcaga aggggag 317

<210> 625

<211> 383

<212> DNA

<213> Homo sapiens

<400> 625

tttgcgtga cccctgagt ggggaaaggc aggtgttgc atggtggcct gagcgagcag 60
aattctcca gggacaatgg cgtctcttg ccacatcttg gtttctgtg tgggtctct 120
cccatggcc aaggcagaaa gtccaaagga acacgaccg ttcacttacg actaccagtc 180

cctgcagatc ggaggcctcg tcacgcccgg gatcctcttc atcctgggca tcctcatcgt 240
 gctgagcaga agatgccggt gcaagttcaa ccagcagcag aggactgggg aacccgatga 300
 agaggaggga actttccgca gtcacatccg ccgtctgtcc acccgaggc ggtagaaaca 360
 cctggagcga tggaatccgg cca 383

<210> 626

<211> 317

<212> DNA

<213> Homo sapiens

<400> 626

gggccacgcc aggaatattc agaaaataat gagaactaca ttgaagtgcc attgatttt 60
 gatcctgtca caagagagga ttgacatg gattttaaat gtgtgtcca taataccctg 120
 agttttcaga cactacgcac cacagtcaag gaagcctcct ccaggttctc ctggggcatt 180
 gtgtgtggccc cactttcact ggcttcttg gtttggggg gaatatggat gcacagacgg 240
 tgcaaacaca gaactggaaa agcagatggt ctgactgtgc tatggcctca tcatcaagac 300
 ttcaatcct atcccaa 317

<210> 627

<211> 397

<212> DNA

<213> Homo sapiens

<400> 627

gggatagtc atatgcaagc agtccaaag gaggaatgtg ccctggagat catcaaagg 60
 ggagctctgc gccaaaga agtgtattat gacagctcac tctggaccac tcttctgac 120
 agaaatccat gcaggaagat cctggaattt ctctactcaa cgagctataa tatggacaga 180
 ttcataaaca agtaggaact ccctgagggc tgggcatgct gagggatttt gggactgttc 240
 tgtctcatgt ttatctgagc tcttatctat gaagacatct tcccagagtg tcccagaga 300
 catgcaagtc atgggtcaca cctgacaaat ggaaggagtt ccttaacat ttgcaaatg 360
 gaaatgtaat aataatgaat gtcatgcacc gctgcag 397

<210> 628

<211> 561

<212> DNA

<213> Homo sapiens

<400> 628

attgctgcta cttatataat tgccaaaaag tgaaataatg ttagttcat gtaaataata 60
 cattatattt ctattttatt atgaagaagg tgaatagcca tatttgtaa atgacaatca 120
 tgtgtgttaa ccagtgctt tccattcgtg aaaacacatt tgcttttgt gatatgcaca 180
 atgtagataa gtgttctgtc tgactttctt tttgatata gaagtataaa gaattgtggt 240
 ttatatattt aaaagtgtca agctgagtat taaaatgtat gcatgtgtc taagaaattg 300
 aatacttgaa tgtgtctcac agtttgaat aagctatttg atgtaatact tcttgttgt 360
 atgcacatga aacttagatt ttacatgaag tatttttca gtattatatg tacccttga 420
 aatacatagg gatatgcgta ttatacaaaa atgttgctga aaaatgggca cttaaagctt 480
 tcagaatag tcagtgtga ttagcatgc ttgttgcaat tgccttttt ctgtataaat 540
 gtctttaatg caatatactg g 561

<210> 629

<211> 514

<212> DNA

<213> Homo sapiens

<400> 629

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cagactgttc agtgtttgtc aagcttctgg tctaatatgt actcgaaaga ctttccgctt   60
acaatttga gaaacacaaa tatcgtttcc catacagcag tgcctatata gtgactgatt   120
ttaactttca atgtccatct ttcaaaggaa gtaacaccaa ggtacaatgt taaaggaata   180
ttcactttac ctgacaggga aaaatacaca aaaactgcag atacttcata tagcccattt   240
taacttgat aaactgtgtg acttgtggcg tcttataaat aatgcactgt aaagattact   300
gaatagtgtg gtcattgtaa tgtgcctaata tcatgtatc ttgtaatcat gattgagcct   360
cagaatcatt tggagaaact atattttaa gaacaagaca tacttcaatg tattatacag   420
ataaagtatt acatgtgttt gattttaaaa gggcgggacat ttattataaa tcaatattgt   480
tttgctttt tctgaggagt ctcttcagt tca                                     514
```

<210> 630

<211> 527

<212> DNA

<213> Homo sapiens

<400> 630

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gattctctgt accaagtgtat gcagcaatgc tgggaggcag acccagcagt gcgacccacc   60
ttcagagtac tagtggggga ggtggagcag atagtgtctg cactgcttgg ggaccattat   120
gtgcagctgc cagcaaccta catgaacttg ggccccagca cctcgcata gatgaatgtg   180
cgtccagaac agccgcagtt ctacccatg ccagggaatg tacgccggcc ccggccactc   240
tcagagcctc ctgcggccac ttgacttagt tcttgggctg gacctgctta gctgccttga   300
gctaacccca aggtctccctc tgggccaatgc caggccagag cagtggccct ccacctgtt   360
cctgcccctt aactttcaga ggcaataggt aaatgggccc attaggtccc tactccaca   420
gagtgcacca gtgagggcag tcctgcaaca tgtatttatg gagtgcctgc tgtggaccct   480
gtcttctggg cacagtggac tcagcagtga ccacaccaac actgacc                                     527
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<210> 631

<211> 489

<212> DNA

<213> Homo sapiens

<400> 631

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gagggtgatg ccatctaacc ctgcccctgt ccaccccgga tgggtgaaac tactgagca   60
gccaagactg ttgcccgagg actcactgta tgggtccctc tcaaagggt cgggagggtta   120
gctctccagg ccagagcttg tctcttcaa cagagaggcc agcggcaact ggtccgttac   180
tggccaaggg ctctgaagaa tcaacggtgc tggtagagga tacaggaata aattgtatct   240
tcacctgggt cctaccctcg tccctacctg tctgtatcct ggtcctgaag acccctcgga   300
acaccctctc ctggtggcag gccacttccc tccagtgcc agtctccatc caccacagag   360
aggaacagggc ggggtgggcca tgtggtttc tcttctctgg cttgggctgg cctctggggc   420
aggggtgggt gagagatgga agggcatcag gtgtaggac cctgccaaagt ggcacctgat   480
ttactctag                                     489
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<210> 632

<211> 546

<212> DNA

<213> Homo sapiens

<400> 632

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gccaacatca ccatcattga gcaccagaag tgtgagaacg cctaccccgga caacatcaca   60
gacaccatgg tgtgtgccag cgtgcaggaa gggggcaagg actcctgcca ggtgactcc   120
ggggggccctc tggctgttaa ccagtctctt caaggcatta tctctggggg ccaggatccg   180
tgtgcgatca cccgaaagcc tgggtgtctac acgaaagtct gcaaataatgt ggactggatc   240
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caggagacga tgaagaacaa ttagactgga cccacccacc acagcccatc accctccatt 300
tccacttggg gtttgggtcc tgttactct gtttaataaga aaccctaagc caagaccctc 360
tacgaacatt ctttgggcct cctggactac aggagatgct gtcacttaat aatcaacctg 420
gggttcgaaa tcagtgaagc ctggattcaa attctgcctt gaaatattgt gactctggga 480
atgacaacac ctggtttgtt ctctgttgta tccccagccc caaagacagc tcttgccat 540
atatca 546

<210> 633
<211> 493
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (87)..(87)
<223> n is a, c, g, or t
<400> 633
cactgctagc agggcttcaa ccaggaaggg atcaaccag gaaggatga tcaggagagg 60
cttccctgag gacataatgt gtaaganagg tgagaagtgc tccaagcag acacaacagc 120
agcacagagg tctggaggcc acacaaaaag tgatgctgc cctgggctag cctcagcaga 180
cctaaggcat ctctactccc tccagaggag ccgcccagat tctgcagtg gagaggaggt 240
cttcagcag cagcaggctt ggagggtga gaatgaacct gactagaggt tctggagata 300
cccagaggtc cccaggtca tcacttgct cagtgaagc cctcttccc caaatcctac 360
tccctcagcc tcaggcagtg gtgctcccat ctctctccc acaactgtgc tcaggctggt 420
gccagccttt cagaccctgc tcccaggac ttgggtggat gcgctgatag aacatcctca 480
agacagtttc ctt 493

<210> 634
<211> 489
<212> DNA
<213> Homo sapiens
<400> 634
agtatttccc atttatcgca gaccttttt aggaagcaag ctaatggct gataatttta 60
aattctctct cttgcaggaa ggactatgaa aagctagaat tgagtgttta aagtcaaca 120
tgttatttgt aatagatgtt tgatagatt tctgctactt tgctgctatg gtttctcca 180
agagctacat aatttagttt catataaagt atcatcagtg tagaacctaa ttcaattcaa 240
agctgtgtgt ttggaagact atcttactat ttacaacag cctgacaaca ttctatagc 300
caaaaatagc taaatacctc aatcagtc cagaatgtcat ttgggtactt tgggtggccac 360
ataagccatt attcactagt atgactagtt gtgtctggca gtttatatt aactctctt 420
atgtctgtgg atttttctt tcaaagtta ataaatttat tttctggat tctgataat 480
gtgctctg 489

<210> 635
<211> 155
<212> DNA
<213> Homo sapiens
<400> 635
gcaacggaag agtcttgggc ggaaggaggc ttctgtatgc ttgtgaaaaa gaacaatctg 60
tgccaacgga aggtttctca acaactttgc tgcaaaacat gtacatttca aggctgagca 120
gccatcttag atttcttctg tctgtagac ttata 155

<210> 636

<211> 355

<212> DNA

<213> Homo sapiens

<400> 636

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tgggttaagc ctgcagggat cccgggtgctc tgtctcctgt gaagatggac ggtatttcaa   60
cggccaggac tgccagccct gccaccgctt ctgcgccact tgtgctgggg caggagctga   120
tgggtgcatt aactgcacag agggctactt catggaggat gggagatgcg tgcagagctg   180
tagtatcagc tattactttg accactcttc agagaatgga tacaatcct gcaaaaaatg   240
tgatatcagt tgtttgacgt gcaatggccc aggattcaag aactgtacaa gctgccctag   300
tgggtatctc ttgacttag gaatgtgtca aatgggagcc atttgaagg atgca         355
```

<210> 637

<211> 469

<212> DNA

<213> Homo sapiens

<400> 637

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agcctatcct taataatcc tccactctct ggaaggagac tgaggggctt tgtaaacat   60
tagtcagttg ctcatthta tgggattgct tagctgggct gtaaagatga aggcatcaaa   120
taaactcaaa gtattthta atthtttga taatagagaa acttcgctaa ccaactgttc   180
tttcttgagt gtatagcccc atcttggtgt aacttgctgc ttctgcaatt catatccata   240
tttctattg ttactthta tctgtagagc agcctgccaa gaattthatt tctgtgttt   300
ttttgtgc taaagaaagg aactaagta ggatgtaac agaaaagtcc acataaccct   360
agaattctta gtcaaggaat aattcaagtc agcctagaga ccatgttgac tttctcatg   420
tgthtctta tgactcagta agttggcaag gtcctgactt tagtcttaa         469
```

<210> 638

<211> 455

<212> DNA

<213> Homo sapiens

<400> 638

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gctctgtca ctgaattatc tccaagtgc tggcagactg aatgttgatg tcattcgagc   60
caagcaactt cttcagacag atgtgagcca aggttcagac ccctttgtga aaatccagct   120
ggtgcatgga ctcaaaactg tgaaaaccaa gaagacgtcc ttcttaaggg gcacaattga   180
tcctttctac aatgaatcct tcagcttcaa agttcccaa gaagaactgg aaatgccag   240
cctagtgttt acagttttcg gccacaacat gaagagcagc aatgacttca tcgggaggat   300
cgtcattggc cagtactctt caggcccctc tgagaccaac cactggaggc gcatgctcaa   360
cacgcaccgc acagccgtgg agcagtgga tagcctgagg tcccagctg agtgtgaccg   420
cgtgtctcct gcctccctgg aggtgacctg agggc         455
```

<210> 639

<211> 418

<212> DNA

<213> Homo sapiens

<400> 639

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ggaactctaa acctgtgat gactactaac aaatgtaaaa ttatgagtga ttaagaaaac   60
attgctttgt ggthtactt ttaagttttg acacctagat tatagcttta gtaatagcat   120
ccactggaaa aggtgaaaat gttttattca gcatttaact tacatttga ctttagagta   180
ttttgtata aaatccatag atttatttta catttagagt atttacta tgataaagtt   240
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gtaaataatt ttctaagaca gttttatat agtctacagt tgcctgatt tcttattgaa 300
 ttgttagac tagttctctt gtctgtgat ctgtgtacaa ttttagtcac taagacttc 360
 ctccaagaac taagccaact tgatgtgaaa agcacggctg tatataatgg tgatgtca 418

<210> 640

<21 1> 505

<212> DNA

<213> Homo sapiens

<400> 640

taagactgt actatgtgtg gccatgaact gacatatgaa aaaatgtgat ttttagttc 60
 agtgacctgt ttatagaat ttatattta aataaaggaa atttagattg gtcctttca 120
 aaattcaaaa aaaaaagcaa catctcata gatgaatgaa acccttgat aagtaatact 180
 tcagtaataa ttatgtatgt tatggcttaa aagcaagttt cagtgaaggc cacctggcct 240
 ggttggtgc acaatgcat gtctgtgatt gccttctac aacagagatg ggagctgagt 300
 gctagagtag gtgcagaagt ggtaggtcag ctacaaattt gaggacaaga taccaaggca 360
 aaccctagat tggggtagag ggaaaagggt tcaacaagg ctgaactgga ttctaacca 420
 agaaacaaat aatagcaatg gtggtgcacc actgtacccc aggttctagt catgtgttt 480
 ttaggacgat ttctgtctcc acgat 505

<210> 641

<21 1> 533

<212> DNA

<213> Homo sapiens

<400> 641

atctacaac ccacctgaa ggtataactg gatccagaga gggaaggact gacaagaagg 60
 aattattcag aaaaacactg acagatgttt tataaattgt acagaaaaat agtataaat 120
 gcaatagggt gaagttttcc agatatgttt ctcttgaaa ttactgtgaa tatttaacaa 180
 acacttactt gatctatgtt atgaaataag tagcaaatg ccagcaaat gtctgtgacc 240
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 tttaaagag tcaaacacta taaatgagta agttgacgat gtttaagat tgcacctggc 360
 agtgtgcctt ttgcaacaa atatttacct ggaggtgtgc cttttgcaa caaatattta 420
 ctttgcaact ggagctgctt ttaattttag caaatgttt tatgcaaggc acaataggaa 480
 gtcagttctc ctgcacttcc tcctcatgta gtctggagta ctttctaaag ggc 533

<210> 642

<21 1> 493

<212> DNA

<213> Homo sapiens

<400> 642

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 atgggggagg gggaggggag cacgggggtga gtcaacctgg gactcggctc cagggatatg 120
 cctaccaata gcgggtatcg taaggcatgt acccaaacat aacggatgta aggcagaaag 180
 tgatcggaga aggaatgaga aagtgtgcgt gatgttaatg aaaagtcata tgcagctaga 240
 gcagaccag gaaagcttct tggaagagat tgcactgag gaaattcagg aaggtatctt 300
 gtagattggg gggagattct aaattgaagg ggtgataggg tgaggggcca gagggaagtc 360
 tgctgtgttc tcatgtagga tgcagccct cctgcaact tctcttttg gccaatgtct 420
 ttctacttct ctgacctttt agaatcatcc ccagccagac gcaatcatgg aagttgcctt 480
 attgtcactg gtt 493

<210> 643

<211> 555

<212> DNA

<213> Homo sapiens

<400> 643

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caccacctac ctatgatgcc gtggtacaga tggagtacct tgacatgggtg gtgaatgaaa   60
cactcagatt attcccagtt gctattagac ttgagaggac ttgcaagaaa gatgttgaaa   120
tcaatgggggt attcattccc aaaggggtcaa tgggtggatg tccaacttat gctcttcacc   180
atgacccaaa gtactggaca gagcctgagg agttccgccc tgaagggttc agtaagaaga   240
aggacagcat agatccttac atatacacac cctttggaac tggaccaga aactgcattg   300
gcatgagggt tgctctcatg aacatgaaac ttgctctaag cagagtcctt cagaacttct   360
ccttcaaacc ttgtaaagaa acacagatcc ccttgaaatt agacacgcaa ggacttcttc   420
aaccagaaaa acccattggt ctaaagggtgg attcaagaga tggaaacccta agtggagaat   480
gagttattct aaggacttct actttggtct tcaagaaagc tgtgccccag aacaccagag   540
attcaactt agtca                                     555
```

<210> 644

<211> 300

<212> DNA

<213> Homo sapiens

<400> 644

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ttctttaggg ctcttctac agccttgaga agtagatagg catcagagta tggactata   60
ggaatcagaa aaattcaaaa caaatgtgga ttaagtgtt aggtctatg tggtcacgc   120
agccagaatc cttagtctg tgtgtttctg tgtctcaaga ctgggctcac attctggctt   180
tgtccataac aatgctctgg gatttcaggg agttccctca ttgtaaaat gaggggggtca   240
gagcaggtga tatccatggt tcttcccttt ctgatattgt tgtctgtggc atattctttg   300
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<210> 645

<211> 551

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (114)..(114)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (119)..(120)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (127)..(127)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (129)..(129)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (149)..(149)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (152)..(152)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (163)..(163)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (167)..(168)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (189)..(189)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (243)..(243)

<223> n is a, c, g, or t

<400> 645

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ttctacttc tacaggggta gagecttaaa aaagaacgtg ctacaaattg gttntctnn   120
agggttneng gttctccctg cccccaatnc cnatatactt tantgenntt ttattttg   180
ctttacggnc tctgtgtctt tctgcaagaa ggcctggcaa aggtatgcct gctgttggtc   240
ccntcgggat aagataaaa ataaataaaa ccttcagaac tgttttgag caaaagatag   300
ctgtacttg gggaaaaaaa ttctaagtc tttatatga ctaatatctt tggtagcaa   360
gactggaag aggtgtttt ttaaatgta cataccagaa caaagaacat acagtctct   420
gaacatttat ttttgaaca gaggtgttt ttatgttgg acctggtaat acagatacaa   480
aaactttaat gaggtagcaa tgaatatca actgttgac tgctaagtg atctgtccat   540
atttagcaa g                                     551
```

<210> 646

<211> 468

<212> DNA

<213> Homo sapiens

<400> 646

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tctgcagtga gtgaaccgc acctcccca gccacacggc tctcaaacgc cacctgcgct   60
cacatacagg cgaccacccc tacgagtgtg agttctgtgg cagctgctc cgggatgaga   120
gcacactcaa gagccacaaa cgcattcaca cgggtgagaa accctacgag tgcaatggct   180
gtgacaagaa gttcagcctc aagcatcagc tggagacgca ctatagggtg cacacagggt   240
agaagccctt tgagtgaag ctctgccacc agcgtcccg ggactactcg gccatgatca   300
agcacctgag aacgcacaac ggcgcctcgc cctaccagtg caccatctgc acagagtact   360
gccccagcct ctctccatg cagaagcaca tgaaggcca caagcccag gagatcccg   420
ccgactggag gatagagaag acgtacctct acctgtgcta tgtgtgaa               468
```

<210> 647

<211> 416

<212> DNA

<213> Homo sapiens

<400> 647

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tcaagtcctc tgggtgcagt tccagcgtga ggttgtttc taccacttat tccggagtaa   60
ccagataaag agatgccctc tggttcatta gctctagttc tccccagca tcactaacia   120
atatgcttgg caagaccgag gtcgatttgt cccagcctta cgggagaaaa gagctatggt   180
tagttacact agctcatcct attccccag ctctttctt tctgctgttt cccaatgaag   240
tttcagatc agtggcaatc tcagttccct tgctatgacc ctgcttgtt cttcccag   300
aaacagtta gtagtgacca ccaccacat gacattcaa gcaccacctt aagccagcca   360
gagtaggacc agttagacct aggtgtgga cagctcctg catcttaaca ctgtgc   416
```

<210> 648

<211> 555

<212> DNA

<213> Homo sapiens

<400> 648

```
tcagtgacc tgaatcttc ccttaaccgt acagttctc gatggaattg tgtgatcaga   60
aggtggaatt ctagtatag ggcacctcag acccgcttc atgtctgtg tgcctcttct   120
attgcacata cactgatttt tagcattgtc taticctatt ttctcttgc ccattgtact   180
tccatatatc ttctcattaa ctacttgcct gcctttttt ttcttggtg cacatttaaa   240
taaagtaatc cttaacctgt gctgtaaagt tcaccttgg catgctgttc caagaacctg   300
ggttgaatc ccaatcgttg tgaacatac tcagtattga taaaacctt ttaataagt   360
atgcagagca gccaaagata tgttgacca gatgtcaacc aggctattt tatacttaaa   420
acatgtcagc agagcatagg cagaataaaa tggtttaaat accccacagc aaatagagta   480
actgacaaac cacaaaaaac tgaacccca gaccaccag aaagacaagt gtctagcaat   540
gccttggtac ctgat   555
```

<210> 649

<211> 343

<212> DNA

<213> Homo sapiens

<400> 649

```
ctgccagacc tgagtggctc agatgggcatc ccgtatcgaa ccgtctctga gtggctcgag   60
tccatacgca tgaacgcta catcctgcac tccactcgg ctgggctgga caccatggag   120
tgtgtgctgg agctgaccgc tgaggacctg acgcagatgg gaatcacact gcccgggcac   180
cagaagcgca tctttgcag tattcaggga tcaaggact gatccctct ctcacccat   240
gccaatcag ggtgcaagga gcaaggacgg ggccaaggtc gtcatggtc actccctgcg   300
cccttccca caacctgcca gactaggcta tcggtgctgc ttc   343
```

<210> 650

<211> 438

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (195)..(195)

<223> n is a, c, g, or t

<400> 650

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atcactattt tgaagcacag ctttacagat gagtatctat gatacatatg tataataaat   60
tttgattggg tattaaaaat attagaagggt ggttataatt gcagagtatt ccatgaatag   120
```

tacactgaca cagggggttt actttgagga ccagtgtagt caagggaaaa catgagttaa 180
aaagaaaagc aggcnatatt gcagtcttga ttctgccact tacaggatag ataacgcctg 240
aactttaatg acaagatgat ccaaccataa aggtgctctg tgcttcacag tgaatctttt 300
ccccatgcag gagtgtgctc ccctacaaac gttaagactg atcatttcaa aaatctatta 360
gctatatcaa aagccttaca tttaataata gggtgaacca aaatttcaat tccagtaact 420
tctattgtaa ccattatt 438

<210> 651

<211> 389

<212> DNA

<213> Homo sapiens

<400> 651

tccccaagac ttactagtgc ccgataaact ttctcaaaga gcaaccagta tcacttcct 60
gtttataaaa cctctaacca tctcttggtt ctttgaacat gctgaaaacc acctggtctg 120
catgtatgcc cgaatttgta attcttttct ctcaaatgaa aatttaattt tagggattca 180
tttctatatt ttcacatatg tagtattatt atttcttat atgtgtaagg tgaaatttat 240
ggtatttgag tgtgcaagaa aatataatgt taaagcttgc attttcccc cagtgaatga 300
ttagaattt ttatgtaaa tatacagaat gtttttctt acttttataa ggaagcagct 360
gtctaaaatg cagtgggggt tgttttgca 389

<210> 652

<211> 385

<212> DNA

<213> Homo sapiens

<400> 652

aaacagtgc tcacctacag acagtgcac ataaattagc agaattaaaa acacatatat 60
gtgtaacccg agcatttggt gacaactgtc tccagctgca tgaagcgaaa cgtttggact 120
ccgccactgc ttgcatggcg aaatattggg catctgagtt acaaaatagt gtagcttacg 180
actgtgtaca gtccatgga ggttggggat acatgtggga gtacccaatt gcaaaagctt 240
atgtggatgc cagagttcag ccaatctatg gtggtacaaa tgaaataatg aaggagctga 300
ttgcaagaga gattgtcttt gacaagtaga catctgcccc catcctggag tcctattaca 360
gctaactcgc tttaaatct gctca 385

<210> 653

<211> 464

<212> DNA

<213> Homo sapiens

<400> 653

gtagactcgg ctgcggagta ctaccgcctc cacttgagg gctaccacgg caccgcaggg 60
gactccatga gctaccacag cggcagtgct ttctctgcc gtgatcgga cccaacagc 120
ttgctcatct cctgcgctgt ctctaccga ggggcctggt ggtacaggaa ctgccactac 180
gccaacctca acgggctcta cgggagcaca gtggaccatc agggagttag ctggtaccac 240
tggaagggct tcgagttctc ggtgcccttc acggaaatga agctgagacc aagaaacttt 300
cgctccccag cggggggagg ctgagctgct gccacctct ctgcacccc agtatgactg 360
ccgagcactg aggggtcgcc ccgagagaag agccagggtc cttaccacc cagccgctgg 420
aggaagcctt ctctgccagc gatctgcag cactgtgtt acag 464

<210> 654

<211> 479

<212> DNA

<213> Homo sapiens

<400> 654

gaccttcccg ctgaggacag ggaagaggca acctggccag cggcggcccg ctctgggggc 60
cgggggtacgc gaccacccaa ccgagcagag gctttgggta cagaccccc agctactcga 120
cagcctacct gcctggcagc tatggctctt cccactgcaa actggaagcc ccctaccgt 180
gtccctccc tcagagtgc ctaggtcc agggggaact gctgccacc tataccact 240
acctgcccc tggctctccc actcataca accctcccct tgctggtgcc ccatgcccc 300
taaccacct ctaacctca tggacgcaga cctacggga cgggcctcat cctcctttt 360
taatccagca gcatcccta cccaggctg tcaaccttt ctctgttg actacagttc 420
agaggcagcc tgcagtctc ccatgatagc caggagagc cgcacaacat acaattata 479

<210> 655

<211> 469

<212> DNA

<213> Homo sapiens

<400> 655

tcacaggct ccagttattc tccatctccc agctcagctt ttctgtctg taagcctgat 60
ttcagggaag gctcttctt agtgatggag atgaccacca tcagctccag gcttctatcc 120
tgtaaccca gtaaccagt gggaagagat ttacttattc caataattcc aagtggagag 180
tgtcattgac cgtttgggg tctcatctct actctaggg gaatgaaaca ctttgagtgg 240
ccaggcctgt gtcagtgtc aattcctaga gccagggaaa taaggtctga ggattcagga 300
tggggtgaaa ggtggttgc taaaggaaaa tgaaatacaa ttagcagaat aaggggaaac 360
gagtggctg ctctgtcgg gcaaaacaag agatgccat tactgtagg gacccttgaa 420
gtctggactc ttaaatgggt ttgtctgat ttctgggtg catgctagg 469

<210> 656

<211> 445

<212> DNA

<213> Homo sapiens

<400> 656

aagggaaggc atccttctgc ctttttatt tttaagct gtaaaaagag agaaaactta 60
tttgatgat tattgttat ttgtacagt cagttctct ttgcatgga tttgtaagt 120
tatgtctaaa gagcttagt cctagaggac ctgagtctgc tatatttca tgactttcc 180
atgtatctac ctactattc aagtattagg ggtaatatat tgctgctggt aattgtatc 240
tgaaggagat ttcttctc acacccttg acttgaggat ttgagtatc tcggacctt 300
cagctgtgaa catggactc tccccactc ctctatttg ctacacggg gtattttagg 360
cagggatitg aggagcagct tcagttgtt tcccagcaa aggtctaaag ttacagtaa 420
ataaaatgtt tgaccatgcc tcat 445

<210> 657

<211> 535

<212> DNA

<213> Homo sapiens

<400> 657

ccatcacct ctcaactggg aaaccctga aatgctctca gagcacctc gacgcctgaa 60
gaagttatac ctctcttc cctttacca aataaagcaa agtcaaacca tcactggaa 120
acagtggcca ctttcaactg acctcttc gacatctagt caaccaccc aatatgccac 180
tgggttgcg tccaattcc acccaccct ccattacaga gtcaccacg cctcctaga 240
tcaccgtccc caacacccc attgcctc aaggccctta tctcagccc ttctgtggc 300
catttccctc agtggccaga tgattccctg ggtgaggagg aactggggc accctcagag 360

gttggagcag gtcacctgct giccctggat cctggacaga tggctcagta aactgtggga 420
ctaggtgcag acctttgcct tcttgagtc ctgggtctcc tctgagaggt ctgggtggtg 480
ctctctac gcctctagag gtctctgtgt tctcatttt cctcaaaag cgggc 535

<210> 658

<211> 522

<212> DNA

<213> Homo sapiens

<400> 658

aaataggcac tcacaatgac aaccagagcc agtttctgt cttttatac atttgtcat 60
cccagagact cggattttgc ttactgtgt tcaagtagag gaaatcgtg tctgaacta 120
ttctgtacca cagcaacaa tctatgtgc ttactatca actgctgtaa tctttataa 180
aacttaccta gtccttccc ttctctatc atagctttaa acattagaat tcataggcaa 240
atcagttaaa acattagat cataggcaaa tcagttacct tgcagaaaga gctttgtatg 300
acagacattg tctatttta ttctgtaaa atattagctg tatgaatatg atttaattaa 360
caagaaaaca ttcttctcg attgacaaca gtgttagcaa ggtgcaaagc gaaactggt 420
gctcaagttg atagaaaaca aaattctgaa tatctcaaa ttaattcggg aaaaacacat 480
tatttttca tatgtgatgt attcatgcag aacaactatc tt 522

<210> 659

<211> 567

<212> DNA

<213> Homo sapiens

<400> 659

cgttctgca agaccacgaa cacagtggag cctctgaggg ggaatctggt gaagaaggac 60
tgtcggaggt cgtgcacacc cagctacacc ctgcaaggcc aggtcagcag cggcaccagc 120
tccaccaggt gctgccagga ggacctgtgc aatgagaagc tgcacaacgc tgcaccacc 180
cgcaccgccc tgcaccacag tgcctcagc ctggggctgg ccctgagcct cctggccgtc 240
atcttagccc ccagcctgtg accttcccc cagggaaggc ccctcatgcc ttcttccc 300
ttctctggg gattccacac ctcttccc cagccggcaa cgggggtgcc aggagcccca 360
ggctgagggc ttccccgaaa gtctgggacc aggtccaggt gggcatggaa tctgatgac 420
ttggagcagg cccacagac cccacagagg atgaagccac cccacagagg atgcagcccc 480
cagctgcatg gaaggtggag gacagaagcc ctgtggatcc ccggatttca cactcctct 540
gtttgttg cgtttattt ttactca 567

<210> 660

<211> 392

<212> DNA

<213> Homo sapiens

<400> 660

ggctggctca agaagcacgc gtactgtcc aacctcagct tccgcctcta cgaccagtgg 60
cgagcctgga tgcagaagtc gcacaagacc cgcaaccagg acgaggggat cctgccctcg 120
ggcagacggg gcacggcgag aggtcctgcc agataagctg taggggtcta ggccaccctc 180
cctgccacgt ggagacgcag aggccgaacc caaactgggg ccaccttgt accctcactt 240
cagggcacct gagccaccct cagcaggagc tgggggtggc cctgagctcc aacggccata 300
acagctctga ctcccacgtg aggccacctt tgggtgcacc ccagtgggtg tgtgtgtgtg 360
tgtgaggggt ggttgagttg cctagaacct ct 392

<210> 661

<211> 196

<212> DNA

<213> Homo sapiens

<400> 661

```
tttcataac tgagcccact cgcaagtgg agccatcagt gggatacgcc acattttgga   60
agccccagca tcgtgtactt accagtgtgt tcacaaatg aaatttgtgt gagagctgta  120
cattaaaaaa aacatcatta ttattattat ttgcagtcac ggagaaccac ctaccctga   180
cttctgttta gtctcc                                     196
```

<210> 662

<211> 489

<212> DNA

<213> Homo sapiens

<400> 662

```
aaagcccttc atctaattt tgttgctatt gccaatttt caatgaaatg acctaaaaac   60
aacaaaaaaa aataacctat acggtagtgt ctttaggggg tgggggggatg ctatctgtta  120
gtgcttaaaa gggggtaaat gcttgccgct ttgaggtgg atggtgtcga taaaaggccc   180
cagtcggggg tatttaaaaa ggactgaaca gaaatcctta gctagtagaa tggcagcacg   240
ctgtaaaatt attactgtat tgtgtactgg ctataagatg tagacacctt tcagtaagcc   300
aatcatttgt aaccattcta gcagtgtcat attagggtta taaggctgct gtgttttaaa   360
gggcattttt atttgggttt tggtgaaatt cttaatttg ttgattatat tcacataaaa   420
tcagcattca ttgacacata gctctaataa catatgtatg aaaaaccata cactggatga   480
cctagtcca                                     489
```

<210> 663

<211> 386

<212> DNA

<213> Homo sapiens

<400> 663

```
cgccctggca cgggtgctgag aattcgcggc ttggttcctc ccaatgccag caggttccat   60
gtaaacctgc tgtgcgggga ggagcagggc tccgatgccg ccctgcattt caacccccgg   120
ctggacacgt cggagggtgt ctcaacagc aaggagcaag gctcctgggg ccgcgaggag   180
cgcggggccgg gcgttccttt ccagcgcggg cagcccttcg aggtgctcat catcgctca   240
gacgacggct tcaaggccgt ggttggggac gccagtagc accactccg ccaccgcctg   300
ccgtggcgcg gcgtgcgcct ggtggagggt ggcggggacg tgcagctgga ctccgtgagg   360
atcttctgag cagaagccca ggcggc                                     386
```

<210> 664

<211> 523

<212> DNA

<213> Homo sapiens

<400> 664

```
gagagggcat atgcatcctc tgtcctgac taggtgtcta tagctgaggg gtaagaggtt   60
gttgtagttg tcttggtgcc tccatcacac tctccctact tgtcccatat ttgcaagggg   120
aggggatttg gggctggggc tccattcacc aaagctgagg tggtctctca ttaaccctt   180
aggactctga agggatgga cctacgtgaa tgtgtgtcag ggggagactt gctggtgggt   240
tagtggctct caggatgtga taaaacatc cagtgtaaaa aggaagttag aatgggagtt   300
ggcgggcagt gaacgagtgt ggggaaggat tgggtgctgg gcaacaggaa ggggcctggg   360
gccgtttggc tgcactaact ttggtagctc agtgtgcatc taaagtggga ctggggaggg   420
agctaagctt gggctgggct gcttggggct tggcataggg tggaaggggc tacctgggg   480
cttctgaccc ccctgtagta tgtgtggagg gtgccctccc gtc                                     523
```

<210> 665
<211> 446
<212> DNA
<213> Homo sapiens
<400> 665

```
aagagggccc agcaaggtaa ttatgggtg agctgatgtc aattggttct tgtcttgagt   60
cgactcaatt tagcccaagt gctgaaacaa gaaatgtcat tttttcatc aaagacacca   120
gggcagattt ttaagtaaag aaagacaatt ggacccttaa gaatttatgc attgttaaag   180
ttgctgttga tccaaatatt tcaagccat gtaatccatt ggttttgtgg gcagttaat   240
aaacctgaac ctttgtgtgt ttctaattg tacctgagtt gaccatcctt tcttttata   300
gtatatttct tgatgatata ttgtaaagc tctcacctgg ttctttatg gggacttttc   360
gttttgggc aactccagt tatttatgtg aaactttata agagaattaa ttttccatt   420
tgcataataa tatgttcctc cacaca                                     446
```

<210> 666
<211> 554
<212> DNA
<213> Homo sapiens
<400> 666

```
gttttggttt tgactcacct gaaagtttt ttggtttaa agaagaatag gcggggcacg   60
gtggctcatg cctgtaatcc cagcactttg ggaggctgag gcaggtggat cagcaggtca   120
ggagatcgac accatcctgg ctaacacggg gaaaccccg cttactataa aaatacaaaa   180
aattagctgg gtgtggtggt gggggtgggc gcctgtgac ccagctacgt gggaggctga   240
ggcagcagac tgggtgaac ccgggagggt gagcttcag tgagccgaga tcgcgccact   300
gcactccagc ctgggcgaca gagcgagact ccatctcaaa aaaaaaaaaa aaaaaaagaa   360
agaaagaaaa ataatttgg gagtttctgg aaaggacta ggatttctca aaaggatttg   420
tcttctccct tgtgaaagac agatgtcaga ctaatcaggc ttatccgatg tgctacatga   480
gatggaaatg cgtgtgaaat agtaagtcac actaagtctt ctggagggtc tatttacggg   540
tttggttga tatg                                     554
```

<210> 667
<211> 504
<212> DNA
<213> Homo sapiens
<400> 667

```
gaaagagcta gattctctct ctcaaaaaaa aaaaaaaaaa ggaaagaaag aaagaaaaga   60
aaagaaaatc ctttttgct ttaactgcc ctgcagggt ttagaaaact caattgttga   120
aatttggttg gataaattc tggattttct atctattcca tgttggaaca ataccacact   180
gccctagtca ctgttcatt atagtatata tttaaaggag taatgggaat ccttcaacta   240
cattttttc cccaataatt ttggctatt ctgctcttt tgtgttcta tgtaaatttt   300
atcatcagtg tgtctatttc taaaaatag cctgataggg ttgaattgg gatttctgtg   360
aatctataga tcaatctgag gagacttaat aatgatattg atttcccaa ttcataaata   420
tagtatacce ctgtatttat ttgtttctt gaatttctt tatcattgtt ttgtagtttt   480
caccatgaca gtctgcaca tatt                                     504
```

<210> 668
<211> 342
<212> DNA
<213> Homo sapiens

<400> 668

caaaggcatt acctgcctca tcgatattat aggggtccat cacaacccaa ctgtgtggcc 60
ggatcctgag gtctacgacc ccttcgctt tgaccagag aacagcaagg ggaggtcacc 120
tctggctttt attcctttct ccgcagggcc caggaactgc atcgggcagg cgttcgcat 180
ggcggagatg aaagtgggcc tggcgtgat gctgctgcac ttccggttcc tgccagacca 240
cactgagccc cgcaggaagc tggaattgat catgcgcgcc gagggcgggc ttggctgcg 300
ggtggagccc ctgaatgtag gctgcagtg actttctgac cc 342

<210> 669

<211> 463

<212> DNA

<213> Homo sapiens

<400> 669

gagagattat ttctgtggtc taaaggtaa aaagccaaca acctgttacc aattattca 60
gcttttttg tttaataag tgtgacaact taaaacttgt ttctatttaa agtgaaatgt 120
atctttcaac tgtttagtta cccagctgtt taatattcca gtcttccaa agtgaaaaga 180
ttgtataca aatgttttct atgatttaaa aaaaatataa ggcacaaaaa accacttcgc 240
cgggtgcgc cccgacggcc gggcccgga gacgcgcgg cagccccggc acctgccaa 300
agtttcaaac cgggaaaaa aaacgtaagc taaggatccc ccccatgtat ccaacctcat 360
gctctatggg acccaggcca tccccgtgag gttctccaga tcttccatgc cttggacgaa 420
aggtgttga tcaactgtgc atcatgacac caaatctata gtt 463

<210> 670

<211> 459

<212> DNA

<213> Homo sapiens

<400> 670

tgagcctggg gttctggtgt tagaatattt ttaagtaggc ttactgaga gaaactaaat 60
attggcatat gttatcagca acttcccctg ttcaatagta tgggaaaaa aagatgactg 120
ggaaaaagac acaccacac cgtagaacat atattaatct actggcgaat gggaaaggag 180
accattttct tagaaagcaa ataaactga ttttttaa tctaaaattt acattaatga 240
gtgcaaaata acacataaaa tgaaaattca cacatcacat tttctggaa aacagacgga 300
tttacttct ggagacatgg catacgggta ctgacttatg agctacaaa actaaattct 360
ttctctgcta ttaactggct agaagacatt catctatttt tcaaatgttc ttcaaaaaca 420
ttttataag taatgttgt atctatttca tgctttact 459

<210> 671

<211> 265

<212> DNA

<213> Homo sapiens

<400> 671

ccggaaccga cgagtcctga ggagagaacc ggtgcgtcct gaggagagaa ccggcgtg 60
gcaacacggg cctgcaaaact cgacaggacc ctgcccagg ggccctcgcg ccaacctgga 120
ccggtccccg cctcctcgc tgcccaatct ctcagacca cccacctgc aggcccagac 180
cacgtgggac agaactcctg cccaccctac cccgagggag gcgaaccgc acttccaggc 240
ttgggaggac catggggcac aatgc 265

<210> 672

<211> 478

<212> DNA

<213> Homo sapiens

<400> 672

```
gagtggaaatg cttcctagaa gttactgaat gcaccatggt caaaacggat tagggcattt   60
gagaaatgca tattgtatta ctagaagatg aatacaaaaca atggaaactg aatgctccag   120
tcaacaaact atttcttata tatgtgaaca ttatcaatc agtataattc tgtactgatt   180
tttgaagac aatccatgta aggtatcagt tgcaataata cttctcaaac ctgtttaaatt   240
atttcaagac attaaatcta tgaagtatat aatggtttca aagattcaaa attgacattg   300
ctttactgtc aaaataattt tatggctcac tatgaatcta ttatactgta ttaagagtga   360
aaattgtctt cttctgtgct ggagatgttt tagagttaac aatgatatat ggataatgcc   420
ggtgagaata agagagtcac aaaccttaag taagcaacag cataacaagg tccaagat   478
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<210> 673

<211> 513

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (215)..(215)

<223> n is a, c, g, or t

<400> 673

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caacttctga taggtctgtc attgaaagag atatgtgcac ttactgccga aaacccttgg   120
gtgtagaaac taaaatgatt ttagatgaat tacaaatttg ctgccattct acttgcttta   180
agtgtgaaat atgcaagcag cctttggaaa atctncaagc gggtgatagt atttggattt   240
atagacagac aatacactgt gaaccttgct actctaaaat tatggcaaag tggattccat   300
aactctggca caaggaaatc aagatgaaaa gcactcatta aggaattaaa gttacaagtt   360
ttatcttaat aatatgtaat ctagaaaagc ttacacattg aagatcaact cttgtacaaa   420
attaacaatt ctgttattgc ataagtaatc taattgtctt caataaggct acacacataa   480
aaagagccat ctggtctctg gctagagtta gca                               513
```

<210> 674

<211> 514

<212> DNA

<213> Homo sapiens

<400> 674

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gaatattttc cacaagatgc tgcaatgtga gttatcactt catttatctt aaagaaagac   60
taaactgggtt gtcagttaca tctgacagaa aaaaaaaaaa aatcactgtg taaccagggt   120
aagtggtaaa ataattcagg gcgtcagtc aaggcatttt gctgacttta atattgatta   180
tatttttaac agggaaatta aggaaaatat tacctgggaa ttaaaaaata tatatatatt   240
aaaacaagaa ttttcctttg cctctgtcta gcttaaacct actacctcaa gctgcttaag   300
ttccttaagt attgtttgta atcaccaata aataagtgca ttgtaatc atcagtcatt   360
attagctttt attaaaagaa gattacgttt tacaatgtaa ctataatctc ttgaatttgg   420
tatcttatta atgagtttta aagatgtaaa acctaaccct tttaaagct ccattgtctt   480
atgtttttag aggcctttcc gtaaacadat atct                               514
```

<210> 675

<211> 387

<212> DNA

<213> Homo sapiens

<400> 675

tccagcggag gccacaagtc ctctcttcc ggggtccgtgg gcgagcttc atctaaggga 60
ccaagatact aacaaaacca gagtaatcaa gacaattatt gaagaggtgg cgcccgcg 120
tagagttctt tcattctacgg ttgaatcaga aaccaagaaa cactactatt aaactgcatg 180
aatctccctt cacacagacc attattaca gatgcatgga aaacaaagtc tccaagaaaa 240
cacttctgtc ttgatggctc atggaaatag accttgaaaa taaggtgtct acaaggtgtt 300
ttgtggttc cgtatttctt ctttctactt taccagaaag tgttctttaa tggaaagaaa 360
aacaacttc tgttctcatt tactaat 387

<210> 676

<211> 520

<212> DNA

<213> Homo sapiens

<400> 676

ttcaccatgg accgggaagt gcgcaaatc aaacaaggcc tgggcttgaa atttgctgag 60
ctggtgtata cgggtttacg gcctagccct gagtgtgaat ttgtccgcca ctgcatcgcc 120
aagtcaccag agcgagtga agggaaagt caggtgtccg tcctcaaggg ccaggtgtac 180
atcctcggcc gggagtcccc actgtctctc tacaatgagg agctggtgag catgaactg 240
cagggtgatt atgagccaac tgatgccacc gggttcatca acatcaattc cctcaggctg 300
aaggaatata atcgtctcca gagcaagtc actgccaat agaccctgt acaatgagga 360
gctggggcct cctcaatttg cagatccccc aagtacaggc gctaattgtt gtgataatt 420
gtaattgtga ctgttctcc ccggctggca gcgtagtggg gctgccaggc cccagctttg 480
ttccctggtc cccctgaagc ctgcaaacgt tgtcatcgaa 520

<210> 677

<211> 465

<212> DNA

<213> Homo sapiens

<400> 677

gcactatggt ttgtgccta cctagctgca tctataatgt cagcttatcc taaggctgtc 60
cacgtactta attacttaa gtgttcattt taagtaacgt gtcactgtg tataggaatt 120
tgtattttgg aggtgcttga tctatctaca aaagaaaaaa ttaattagga attactttat 180
tataaaatgc tcctagaagt ctttaattgt ttatttttt aaaaaaacia atgttagact 240
tgtgtgcatg gaagtaatta aggtacatca ttattgtagt ttgaaagttg tacatgataa 300
gacattttgt tttactgta tgttttact gaatgatcta ttcccatcc caaggcaagc 360
atgaataaaa ttagggtaaa cgtagcatgt ggcatcgag tctcttagaa ttgtttcat 420
ctattttatt ttattgaata ctgtctgtat ctttggttat cctgt 465

<210> 678

<211> 548

<212> DNA

<213> Homo sapiens

<400> 678

agtctgctga agaggcattg cacagatcaa acaaggatgg atcatttctt attcggaata 60
gctctggcca tgattccaaa caaccatata cactagtgtt attcttaat aagcgagtat 120
ataatattcc tgtgcgattt attgaagcaa caaaacaata tgccttgggc agaaagaaaa 180
atgggtgaaga gtactttgga agtgttgctg aaatcatcag gaatcatcaa catagtcctt 240
tggttcttat tgacagtcag aataacacaa aagattccac cagactgaag tatgcagtta 300
aagttcata aagggggaaa aaaaagatca ataccattgc ttcagacact ttcccaaagt 360
ttctcctttt gagaaaaagt cccaaaactt cataattttg attatgaatc atccagtaat 420

aaaatggaag atggagtcag ctattgaagt ggtcatccat ttcttttaa gaagctcatg 480
tggacttggt ctattgcctg acctgatgaa ctgttaatat ctggtgaggt tgagttatca 540
tgctacta 548

<210> 679

<211> 345

<212> DNA

<213> Homo sapiens

<400> 679

gggattggca gcggtgcat catcagtggc gggggctccg tctgcggagg tggttcctct 60
ggaggcggcg gcggcggctc ctccgtgggt ggctccggga gtggcaaggc cgtcccgtac 120
tgccaccaga cccagcagaa gcaggcgcct acctggccgt ccaaatagat ccccagggt 180
accacggagg cgaaggaggt ggagggtgtt tccaggggca ccgatgggt tagagctctc 240
atgatgtac ccgaggttg caaatcttc atgtctaac ctacctgga gaagccattg 300
agctctccgg ctgcatctag ttctgtgtt tagcctctt ggtt 345

<210> 680

<211> 474

<212> DNA

<213> Homo sapiens

<400> 680

ttattctag cgtcactggt ctggtttca gaattaacat acaagggtgc cacacctagt 60
tctgccagc ttatgtctt ttattccagt attccaccaa agttgttt cctgcattcc 120
agttctcaag tcttaagata aagattgtac ttgacagtt agtatatcca taaaactatt 180
tgagggtggt aagggtctg ggttcattt ccttaatact ttgctgaata tttagattg 240
taggcaatga aaaagtctac taaattagga aaacctgaa taattaggta tcctaggtaa 300
gagccccaa acatcaagca atctgtgagt ctgtaaagaa ataaatatt ttggattat 360
tcttatctaa ttccaccct gtggaagat gatttcttg ttcttgcaa ctatggaagc 420
tgtgaaaac atcacaagt cctctgaaag cgagtgttag gttggttaga gggt 474

<210> 681

<211> 479

<212> DNA

<213> Homo sapiens

<400> 681

gctggagggt acgctactga gaacttgag gatgtcgggc actctacaga tgccaggga 60
atgtccaaaa cattcatcat tggggagctc catccagatg acagacaaa gttaacaag 120
cctccagaac cttaaaggcg gtgttcaag gaaacttta tcaactat tgattctagt 180
tccagttggt ggaccaactg ggtgatccct gccatctctg cagtggccgt cgccttgatg 240
tatgcctat acatggcaga ggactgaaca cctctcaga agtcagcgca ggaagagcct 300
gctttggaca cgggagaaaa gaagccattg ctaactact caactgacag aaacctcac 360
tgaaaacaa tgattttaat atatctttt cttttcttc cgacattaga aacaaaaca 420
aaagaactgt ctttctgcg ctcaaattt tcgagtgtgc cttttattc atctactt 479

<210> 682

<211> 460

<212> DNA

<213> Homo sapiens

<400> 682

tgaagctttt ggtccagcg tgacctctc tttagataa agatgagccc ccaccaccac 60

cgactctccc aaccagact ctcccactcc agaattgtaga agcctgtctc tgtaccteta 120
 actggcagca agttaaattt ttgtcattta tctctgatgg cactttgagg gaaaagaatg 180
 tccacataca gtttttgaag gatcttctct ccaaacagct tagttagagc cagtgcagcc 240
 tctgtgttct ggggcggaat ctgtgctgtc taggtttgtg cttctagcca tgccattcc 300
 cgccccacc atgcctcttt gcattgcccc ttctccagat gtgtattctg ttgaggaccc 360
 aggcccatcc agggatttca tctctaagcc tggcagtgct ggggggaaat gtgtttctgt 420
 gtatatagct cctctgtcc actctgcttt cggaagtgtc 460

<210> 683

<211> 493

<212> DNA

<213> Homo sapiens

<400> 683

gtgagttatc acttcattta tcttaaagaa agactaaact ggtgtcagt tacatctgac 60
 agaaaaaaaa aaaaaaatca ctgtgtaacc aggggttaagt ggtaaaata atcGagggcg 120
 tcagtcaaag gcattttgct gactttaata ttgattatat tttaacagg gaatttaagg 180
 aaaatattac cggggaatta aaaaatata atatattaaa acaagaattt tcctttgcc 240
 ctgtccagcc taaacctacc tacctcaagg ctgcctaagt tctaagtat tgtttgta 300
 caccacaata ataagtgcatt ttgtaattca tcagtcatta ttgctttta ttaaagaag 360
 attacgtttt acaatgtaac tataatctct tgaatttggc atcttattaa tgagttttaa 420
 agatgtaaaa cctaaccctt tttaaagctc cattgtctta tgtttttaga ggcttttccg 480
 taaacataata tct 493

<210> 684

<211> 343

<212> DNA

<213> Homo sapiens

<400> 684

aaggaagagt ctaggctgag caacatgaag gggcccccaa ccttctgcag cctcctgctg 60
 ctgtcattgc tctgagccc agacctaca gcagcattcc tactgccacc cagcactgcc 120
 tgctgtactc agctctaccg aaagccactc tcagacaagc tactgaggaa ggtcatccag 180
 gtggaaactgc aggaggctga cggggactgt cacctccagg cttctgtgct tcacctggct 240
 caacgcagca tctgcatcca cccccagaac cccagcctgt cacagtgggt tgagcaccaa 300
 gagagaaagc tccatgggac tctgccaag ctgaattttg gga 343

<210> 685

<211> 522

<212> DNA

<213> Homo sapiens

<400> 685

ctaaaatttg ttaccacatc attgcttctt ttctacagga cgaattgagg cttaaacttt 60
 actgttaatg atactgggtc attttaatgt gcttgttggc atgttgctat ttctatttc 120
 atagctttca aaaatcatgc taattgtata cttgtctagt ttaaggctat ttaaaaatat 180
 gtacaatact attcacagca tttagttcgt ttaattttta ttataagca atctactaaa 240
 aaagtacaac tgtatttgaa cttttcaata gttgtttgtg agctatgata atcaaaagtc 300
 attaaagtct ttttaacaa acattcgtgc ttactttca acataattcc cagttatata 360
 cagaaaaaga ttccacctg tcacgtatct gcctcttta cctgagcaat ggtgtagttc 420
 ttgacaccaa ggtctgtaat tgcaatactt ttaaagaaag atgttgctct aagtgcgttt 480
 tgttagttat gaaatcagat ttctctgctt gttcttaatg ct 522

<210> 686

<211> 555

<212> DNA

<213> Homo sapiens

<400> 686

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catttactac agtgtctcag ccttgataaa gggcagtgga ttgcctgttg ttcggtgttg   60
tgaatagcac ctctgaataa gattagagtg tttcttaatt catttcaaac tctaaaatta  120
gattaatggt ggtgctaaga aagagtatta attactttgg gaatggtaa aattaacatt  180
aaaaacattt tagacaaaaa gtttcattgt acattcaaag aaaatgtaag ttggaagta  240
ctaaaagact attttatact tgttgattaa tcggaatgtt tgtgtatgc cttcattttc  300
catttcactt atatgtgcat gtccatatat gttaattttc attgtagcaa agctaattgga  360
aataaagcta atgctctagt tgaaagaaaa ggaaaactcc tgaaatccta gaatgtcttg  420
ttatttttag ctgactgtaa aatattatga acagtctttg tgtattgtgc ttaatgcttt  480
tgtaagaaac agaatttgaa atatttcac cttgtcatgc tcaaaatttt gttacatgct  540
tgttattcag agtat                                     555
```

<210> 687

<211> 455

<212> DNA

<213> Homo sapiens

<400> 687

```
gaaatttttg tcaactccag aggtgagaca agccatccac gtggggaatc agacttttaa   60
tgatggaaact atagttgaaa agtacttgcg agaagataca gtacagtcag ttaagccatg  120
gttaactgaa atcatgaata attataaggt tctgatctac aatggccaac tggacatcat  180
cgtggcagct gccctgacag agcactcctt gatgggcatg gactggaaag gatcccagga  240
atacaagaag gcagaaaaaa aagtttgaa gatccttaaa tctgacagtg aatggctg  300
ttacatccgg caagcgggtg actcccatca ggtaattatt cgaggtggag gacatatatt  360
accctatgac cagcctctga gagcttttga catgattaat cgattcattt atggaaaagg  420
atgggacact tatgttggat aaactacctt cccga                                     455
```

<210> 688

<211> 382

<212> DNA

<213> Homo sapiens

<400> 688

```
gatagcaaac actgggggca ccttaagatt ttgcacctgt aaagtgcctt acagggtaac   60
tgtgtgaat gcttagatg aggaaatgat cccaagtgg tgaatgacac gcctaaggtc  120
acagctagtt tgagccagtt agactagtcc cccggtctcc cgattccaa ctgagtgtta  180
ttgcacact gcactgtttt caaataacga ttttatgaaa tgacctctgt cctccctctg  240
attttcata ttttctaaa gtttcgttc tgttttttaa taaaaagctt tttctcctg  300
gaacagaaga cagctgctgg gtcaggccac ccttaggaac tcagtcctgt actctggggt  360
gctgcctgaa tcattaaaa at                                     382
```

<210> 689

<211> 451

<212> DNA

<213> Homo sapiens

<400> 689

```
agcaggtctc ccacagtaaa tgggtgggaga agccgggcct acatgcccc gcggagccgc   60
agccgggacg acctctatga ccaagacgac tcgagggact tcccacgctc ccgggacccc  120
```

cactacgacg acttcaggtc tcgggagcgc cctcctgccg accccaggtc ccaccaccac 180
cgtacccggg accctcggga caacggctcc aggtccgggg acctccccta tgatgggcgg 240
ctactggagg aggtctgtgag gaagaagggg tcggaggaga ggaggagacc ccacaaggag 300
gaggaggaag aggcctacta cccgcccgcg ccgccccctg actcggagac cgactcgag 360
gcgtcccag agcgcaggct caagaagaac ttggccctga gtcgggaaag ttagtcgtc 420
tgatctgacg tttctacgt agcttttgta t 451

<210> 690

<211> 358

<212> DNA

<213> Homo sapiens

<400> 690

ggagcagtgg actgccacaa gccacatgt aaccctctc acctgccgtg cgttctggct 60
gtggaccagt aggactcaag gtggacgtgc gttctgcctt ccttgtaat ttgtaataa 120
ttggagaaga tttatgtcag cacacactta cagagcacia atgcagtata taggtgctgg 180
atgtatgtaa atatattcaa attatgtata aatatatatt atatatttac aaggagtat 240
ttttgtatt gattttaaat ggatgtccca atgcacctag aaaattggtc tctcttttt 300
taatagctat ttgctaaatg ctgttcttac acataatttc ttaattttca ccgagcag 358

<210> 691

<211> 473

<212> DNA

<213> Homo sapiens

<400> 691

cccctgaacg tgttttcga catggagact gatggggggcg gctggctggt gttccagcgc 60
cgcatggatg gacagacaga cttctggagg gactgggagg actatgccca tggttttggg 120
aacatctctg gagagtctg gctggggcaat gaggccctgc acagcctgac acaggcaggt 180
gactactcca tgcgcgtgga cctgcgggct ggggacgagg ctgtgttcgc ccagtacgac 240
tccttccacg tagactcggc tgcggagtag taccgcctcc acttgaggagg ctaccacggc 300
accgcagggg actccatgag ctaccacagc ggcagtgtct tctctgcccg tgatcgggac 360
cccaacagct tgctcatctc ctgcgctgtc tctaccgag gggcctgggtg gtacaggaac 420
tgccactacg ccaacctcaa cgggctctac gggagcacag tggaccatca ggg 473

<210> 692

<211> 521

<212> DNA

<213> Homo sapiens

<400> 692

tagcccttgt ttttaacaca cgctccagcc ctctatcagc ctgggcagtc ttacaaaat 60
gtttaaagtg atctcagagg ggcccatgga ttaacgcct catccaagg tccgtccat 120
gacataacac tccacaccg cccagccaa ctctatgggt cacttttct ggaaaataat 180
gatctgtaca gacaggacag aatgaaactc tgcgggtctt tggcctgaaa gttgggaatg 240
gttgggggag agaagggcag cagcttattg gtggtcttt caccattggc agaaacagtg 300
agagctgtgt ggtgcagaaa tccagaaatg aggtgtaggg aattttgcct gccttctgc 360
agacctgagc tggctttgga atgaggttaa agtgtcaggg acgttcctg agcccaaatg 420
tgtagtgtgg tctgggcagg cagacctta ggttttctg cttagtcctg aggaaagtgc 480
cactctgtg gcaggtgtag tatctggggc gagtgtggg g 521

<210> 693

<211> 388

<212> DNA

<213> Homo sapiens

<400> 693

```
ctgggattac aggcttgagc ccccgcgccc agccatcaaa atgctttta ttctgcata   60
tgtttgaata ctttttcaaa tttaaaaaaa tgatctgtt tgaaggcaaa attgcaaatt  120
ttgaaattaa gaaggcaaaa tgtaaaggag tcaaacataa aatcaagtat ttgggaagtg  180
aagactggaa gctaatttgc ataaattcac aaactttat actctttctg tatatacatt  240
tttttcttt aaaaaacaac tatggatcag aatagccaca tttagaacac ttttggtat   300
cagtcaatat ttttagatag ttagaacctg gtcctaagcc taaaagtggg cttgattctg  360
cagtaaatct ttacaactg cctcgaca                               388
```

<210> 694

<211> 565

<212> DNA

<213> Homo sapiens

<400> 694

```
aatgctcaga agttgcctat gtgtgacaaa tgtggcactg ggattgttgg tgtgtttgtg   60
aagctgcggg accgtcacgc ccaccctgag tgttatgtgt gcactgactg tggcaccaac  120
ctgaaacaga agggccattt ctttgggag gatcaaatct actgtgagaa gcatgcccg   180
gagcgagtca caccacctga gggttatgaa gtgtcactg tttcccaa gtgagccagc   240
agatctgacc actgttctc agcaggcctc tctgcagct tttctctca gtgtctggc   300
cctctctct cttgaaagt cctgcttac ttggtttc cctctgttg taaaacattg   360
agtccccctc ctgccttgg taattgactc acaccagctg tgcgatgcc gcttttaca   420
ttaaggaaa actgtttgt tcagtgtcac ctgtcagca acactgtgc cttcgcccc   480
accgttctc tctgtgcat ttggacatca gccaaattg aaccaatca aatataacgt   540
gtctgacact gatttgtt ttact                               565
```

<210> 695

<211> 564

<212> DNA

<213> Homo sapiens

<400> 695

```
tagaccatct ccatttttag cacttggcag cctcatgac cttttataa tgtgagatta   60
acaggagagc agcaatacga ttttgccat ggaataacag atttgccggc attcactgaa  120
agagggcaga tattgggtcc ttgtaactc aactgactct tccaaattgt atgaatttat  180
caatgtatta cacaaatcca gtttcagaat gataaaaaat gtagaccaa ataatgcggc  240
taattaacag tcgtatgatt tctagcccat gggtttaaaa ctgtatctta aagagtcatt  300
ttaaaataat ataaatatta aaaaatgtaa ctgctatctt aatgttctga aataaacat  360
ttaaaatat aaatcctgta gtttaaaagg aagaaatggt gggaaggaaa agtagagaaa  420
gaaatgccaa ttacaggcca aagcgttatt tgccaagttt tcttagaatg aattttacca  480
atgtatgagt tcttgtaac agaattgtga acggaaatc tgaagactt ttgctaaag   540
tggcattatt gactgctgat gtga                               564
```

<210> 696

<211> 480

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (431)..(431)

<223> n is a, c, g, or t

<400> 696

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gaaggctgga tctatctac ataagtcctt tcaattccac cagggccaga gcagctccac   60
cactgtgcac ttagccatga tggcaacaga aaccaagaga cacaattacg caggtattta  120
gaagcagagg gacaaccaga agggcccttaa ctatcaccag tgcatacat ctgcacactc  180
tcttctccat tccctagcag gaacttctag ctcatTTAAC agataaagaa actgaggccc  240
acggtttcag ctagacaatg atttggccag gcctagtaac caaggccctg tctctggcta  300
ctccctggac cagcaggctg attcctctca ttccagctt ctcaGTTTct gcctgggcaa  360
tggccagggg ccaggagtgg ggagagtgtg gatggagggg agaggggtca caccacccc  420
ctgcctggtt ntaggtgctg gcacaccaag gccctgcatc tgtctgctct gcatatatgt  480
```

<210> 697

<211> 525

<212> DNA

<213> Homo sapiens

<400> 697

```
atttagtcaa ctggcccaag gcagcgaggc ttctacagtc ccacacccca tagccgcctg   60
ggctggggct tactgggggc tgaaggttct ggacatgaac aagggtcagg tagaagagaa  120
aggctcccc tacacccag cctctgctg tccctgaag cccaggactg cgttgtatgc  180
tttccatcca ctaccttac cccatagcat ctgCGGCC agaaaccaga gccattgtc  240
tcagacccta aatcaataat cacaacccc aaaacgggag agagcagtga aaacatgcag  300
ggctgtggac gggggaaggg ttgtggcggg tgttctgagg ctgagaggac acctatatgc  360
gtatttctc tacacacatc acccccttc tataatctta agccatgact agcctggtgg  420
cgtgttagtt tctgccagt tctacccct catgtgcttc ttctgaatac tgaatgtgac  480
tgtttgaaag ctggtagaat tcatccctct tactgtagat aacac 525
```

<210> 698

<211> 552

<212> DNA

<213> Homo sapiens

<400> 698

```
atgtcatcgg tatttcaacc ggagtaaatt gctagatttc tgcaagtcca aagatatgt   60
tctggtgcc tatagtgtc tgggatctca acgagacaaa cgtgggtgg acccgaaactc  120
cccgtgtctc ttggaggacc cagtcctttg tgccttgcca aaaaagcaca agcgaacccc  180
agccctgatt gcctgcgct accagctgca gcgtgggggt gtggtcctgg ccaagagcta  240
caatgagcag cgcatacagc agaacgtgca ggttttgag ttccagtga ctgcagagga  300
catgaaagcc atagatggcc tagacagaaa tctccactat ttaacagtg atagttttgc  360
tagccacctt aattatccat attcagatga atattaacat ggagggcttt gcctgatgtc  420
taccagaagc cctgtgtgtg gatggtgacg cagaggacgt ctctatgccg gtgactggac  480
atatcacctc tactaaatc cgtcctgttt agcgactca gtcaactaca gctgagtcca  540
taggccagaa ag 552
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<210> 699

<211> 503

<212> DNA

<213> Homo sapiens

<400> 699

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ttacagtcca gtttagttaa tctattaata ctgactcagt gtctgccttt aaatataaat   60
gatagtgtga aaacttaagg aagcaaatgc tacatatatg caatataaaa tagtaatgtg  120
```

atgctgatgc tgtaaccaa agggcagaat aaataagcaa aatgccaaaa ggggtcttaa 180
 ttgaaatgaa aatttaattt tgttttaaa atattgtta tctttatta ttgggggta 240
 atattgtaag tttttagaa gacaatttc ataactgat aaattatagt ttgtttgtt 300
 agaaaagtag ctctaaaag atgtaaatag atgacaaacg atgtaataa tttgtaaga 360
 ggcttcaaaa tgtttatacg tggaaacaca cctacatgaa aagcagaaat cgggtgctgt 420
 ttgcttctt ttccctctt attttgtat tgtggtcatt tcctatgcaa ataatggagc 480
 aaacagctgt atagttgtag aat 503

<210> 700

<21 1> 497

<212> DNA

<213> Homo sapiens

<400> 700

gtgaaacaat tccaggcat gccccctgc acatacaca tgccaagtca gtttctcca 60
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 caagcagaga tgctccagaa ttaacccca cctccatcct atgctgctac aattgcttct 180
 aaactggcaa ttcacaatcc aaatttacc accacctgc cagttaactc acaaacatc 240
 caacctgtca gatacaatag aaggagtaac cccgatttg agaaacgacg catccactac 300
 tgcgattacc ctggtgac aaaagtatt accaagtctt ctatttaaa agctcacctg 360
 aggactcaca ctggtgaaaa gccatacaag tgtacctggg aaggctgcga ctggagggtc 420
 gcgcgatcgg atgagctgac cggccactac cggaagcaca caggcgccaa gcccttcag 480
 tgcggggtgt gcaaccg 497

<210> 701

<21 1> 505

<212> DNA

<213> Homo sapiens

<400> 701

tgaacgaatt tatttcccc tcagttttg agggcattaa aaaggcatta aatcaagaca 60
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 cagctcctt ggaggtagaa tttattatt taaaattact ggttgcata agaaccata 180
 ggggtgacaa aaggttctat aaaatctgca ttagagagac aaagaggcag gcaaatccat 240
 gtacaagggt taaagcttac agttacaaa ctgggaacgc cagggtgtag gatataaaa 300
 cgcactcttg agaaaacaaa tgtaatcagg gtgctgaaaa ctgcatggt gcttcagac 360
 attagccttg tcaacaaat ttctgtatt gacagatcca tagtgtcat gggcagacac 420
 atttgcctc tatgtctctt aaaatttaa ttaaaaatac tcttcagat aatcctaatt 480
 tgcacgaaga tataatgttc acatt 505

<210> 702

<211> 450

<212> DNA

<213> Homo sapiens

<400> 702

gcagcactta caatcactaa tcccttaag gttgaaactg taatgacata aaaagggtcg 60
 atgatattc actgatgta gatcgagcc cctgcaacgt agcctttgtt acatgaagtc 120
 cgctgggaaa tagatgtct gtctctatga caatatatt taactgactt tctagatgcc 180
 ttaatattg catgataagc tagtttatt gtttagtat tctgttgtt tacgcatgga 240
 atcactattc ctggtatct caccaacgaa ggctaggagg cggcgtcaga ggtgctgggt 300
 gacagagcca tgagccagcc atttataag cactctgatt tctaaaagt aaaaaaata 360
 tatgaaatct ctgtagcctt tagttatcag tacagattta ttaaatttcg gcccttaacc 420

cagccttttc cagtgtgtaa cccagtttga

450

<210> 703

<211> 542

<212> DNA

<213> Homo sapiens

<400> 703

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tggtcaccag ccaccaggcc ccaggagaaa agaagaaact gaagtgcctg gcctacgact 120
tctaccagg gaaaattgat gtgcactgga ctggggccgg cgagggtgcag gaggctgagt 180
tacggggaga tgttcttcac aatggaaatg gcacttacca gtcctgggtg gtggtggcag 240
tgccccgcga ggacacagcc ccctactcct gccacgtgca gcacagcagc ctggcccagc 300
ccctcgtggt gccctgggag gccagctagg aagcaagggt tggaggcaat gtgggatctc 360
agaccagta gctgccctc ctgcctgatg tgggagctga accacagaaa tcacagtcaa 420
tggatccaca aggcctgagg agcagtgtgg ggggacagac aggagggtgga ttggagacc 480
gaagactggg atgcctgtct ttagtagact tggacccaaa aaatcatctc accttagacc 540
ca 542

<210> 704

<211> 503

<212> DNA

<213> Homo sapiens

<400> 704

gaattctga actgcatgta ttgtccaat ctgtcctgag tgttcattgt ttgtacaaa 60
tttaatgaac gcgtgttctg taatcaaact gcaaatattg tcataaccaa catccaaaat 120
gacggctgct atatataagt gttgtcata tggaaattaa tcgtaagcca tgatcataat 180
gttaactaaa taactttatg tggcactgcc tagtaaggga actatggaaa ggtttggatt 240
tctccaaatc tgggagaatt ttcaaaataa gaaaataacc tttatatgat atactatgac 300
taggctgtgt attcttttc agggattttt ctaccctcag ggttggatgt agtttagtta 360
ctattacat agccaacctg tagttttaca tatacathtt ctgtggagc aatagagttc 420
tccattttac agaagcattt taaatgtagt ttgaatattt tccacaagat gctgcaatgt 480
gagttatcac ttcatattc tta 503

<210> 705

<211> 396

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (148)..(149)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (151)..(154)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (156)..(156)

<223> n is a, c, g, or t

<400> 705

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gaatgtgtga attcaataga ggctatgtaa aattttact aatgtcatta tttgaaaaa 120
ataaatttaa aaatacattc aaaattanna nnnnanacaa gcttaattgt taatattccc 180
taaacacaat ttatgaagg gagaagacat tggttgttg acaataacag tacatcttt 240
caagtctca gctatttctt ctacctctcc ctatcttaca ttgagtatg gtaacttatg 300
tcatttatgt tgaatgtaag cttataaagc acaaagcata catttctga ctggctaga 360
gaactgatgt tcaatttac ccctctgcta aataaa 396

<210> 706

<211> 49

<212> DNA

<213> Homo sapiens

<400> 706

gtctttgcta taccactgac tgtattgaaa accaaagtat taagagggg 49

<210> 707

<211> 262

<212> DNA

<213> Homo sapiens

<400> 707

ggatgcagc catccagaga tgtgacctcc tccagccgcc aaatccgcac caaggtcatg 60
gatgtgcacg atggcaagggt ggtgtccacc cagcagcagg tccttcgcac caagaactga 120
ggctgccag ccccgctcag gcctaggagg cccccgtgt ggacacagat cccactggaa 180
gatccctct cctgcccaag cacttcacag ctggaccctg cttaccctc accccctct 240
ggcaatcaat acagcttcat ta 262

<210> 708

<211> 396

<212> DNA

<213> Homo sapiens

<400> 708

ggcaactgc ttaatttgtt ggattttgta gatggttca aatgactgaa ctgcattcag 60
atttacgagt gaaagggaaa attgcattag ttggttgcat gaacttgaa gggcagatat 120
tactgcacaa actgccatct cgttctattt tttaactat gcatttgagt acagactaat 180
ttttaaata tgctaaactg gaagattaaa cagatgtggc ccaaactgtt ctggatcagg 240
aaagtcatac tgttacttt caagtggct gtccccccg ccgcccccc ceaccccat 300
atgtacagat gataatagggt tgggaatgt cgtcagtggc aaacatttca cagattattt 360
tgttctgtc tcaacattt ttgacctgt gctaatt 396

<210> 709

<211> 455

<212> DNA

<213> Homo sapiens

<400> 709

gctggagggt acgctactga gaacttgag gatgtcgggc actctacaga tgccaggga 60
atgtccaaa cattcatcat tggggagctc catccagatg acagacaaa gttaacaag 120
cctccggaaa ctctatcac tactattgat tctagtcca gttggtggac caactgggtg 180
atccctgcca tctctgcagt ggccgtgcc ttgatgtatc gcctatacat ggcagaggac 240
tgaacacctc ctcaagaagc agcgcaggcc gagcctgctt tggacacggg agaaaagaag 300

ccattgctaa ctacttcaac tgacagaaac cttcacttga aaacaatgat ttaatatat 360
ctctttcttt ttcttccgac attagaaaca aaacaaaaag aactgtcctt tctgcgctca 420
aatttttcga gtgtgccttt ttattcatct acttt 455

<210> 710

<211> 501

<212> DNA

<213> Homo sapiens

<400> 710

gaacagaacc tgagtcgtcg gactttcaaa agcctcttca gagcaagcga tgagagtgtt 60
ttatccatgc ataaagtctg tgaagcggga ggacttttg taaatagccc agaagagccc 120
agcctcagca ggatgggtcac tgaggaggaa atccagttct atgtgcagca gttcaagaag 180
tctggtttca gaggtcctct aaactggtac cgaacatgg aaaggaactg gaagtgggct 240
tgcaaaagct tgggacggaa gatcctgatt cgggccctga tggtcacggc ggagaaggac 300
ttcgtgctcg ttctcagat gtcccagcac atggaggact ggattcccca cctgaaaagg 360
ggacacattg aggactgtgg gcaactggaca cagatggaca agccaaccga ggtgaatcag 420
atcctcatta agtggctgga ttctgatgcc cggaaccac cggtggtctc aaagatgtag 480
aacgcagcgt gtgccacgc t 501

<210> 711

<211> 379

<212> DNA

<213> Homo sapiens

<400> 711

gttttactg cttgtatgat gtttccatt catacaccta taaatctcta acaagaggcc 60
ctttgaactg ccttgtgttc tgtgagaaac aaatatattac ttagagtgga aggactgatt 120
gagaatgttc caatccaaat gaatgcatca caacttaca tgcgtctcat tgttgtgagt 180
actatgagat tcaaattttt ctaacatag gaaagccttt tgcctccaa agatgagtac 240
tagggatcat gtgttataaa aaagaaaggc tacgatgact gggcaagaag aaagatggga 300
aactgaataa agcagttgat cagcatcatt ggaacatggg gacgagtgac ggcaggagga 360
ccacaggaa atacctca 379

<210> 712

<211> 256

<212> DNA

<213> Homo sapiens

<400> 712

aatcctgtac caaatctgac atattatgcc tgaatgactc cactgtttt ctctaagtct 60
tgatttaggt agccttgtgt tctgagtaga gcttgtaata aatactgcag cttgagaaaa 120
agtggaaagct tctaaatggg gctgcagatt tgatattgc attgaggaaa tattaatttt 180
ccaatgcaca gttgccacat ttatcctgt actgtatgga aacactgatt ttgtaaagtt 240
gcctttattt gctgtt 256

<210> 713

<211> 423

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (369)..(370)

<223> n is a, c, g, or t

<400> 713

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atagtaccag taggggctta taataaagga ctgtaatctt atttaggaag ttgacttata   60
gtacatgata aatgatagac aattgaggta agtttttga aattatgtga cattttacat  120
taaattttt ttacattttt tgggcagcaa tttaaatgtt atgactatgt aaactacttc   180
tcttgtagg taatttttt cacctagatt ttttcccaa ttgagaaaa tatatactaa   240
acaaaatagc aataaaacat aatcactcta ttgaagaaa atatcttgtt ttctgccaat   300
agatttttta aaatgtagtc agcaaatgg ggggtggggaa gcagagcatg tcctagttca  360
atgttgacnn tttttttt tttaagaaa agcattaaga cataaaattc ttcactttg   420
gca                                     423
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<210> 714

<211> 398

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (42)..(42)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (103)..(103)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (164)..(164)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (225)..(225)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (286)..(286)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (347)..(347)

<223> n is a, c, g, or t

<400> 714

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aaagctaaac tgccttgac cctaagatag atagaaagct atnttatttg tcttcagtgt  120
tcaaggcatg actagtattt ctaattagcc taataaatc ccancacttt ctgaagtga   180
cactaatggt attgcctac taaaactgtc attgttctt tttntttaa ctggtcagtc   240
atfcacaata agctatgagg gtaaataaat atgtgttata acaagntaaa ccgtagttgc  300
aagaatatac catgaagatt aaagtaggct gggtttcatt tccatcnttc ccacacatct  360
cattgaattt gatggttgac ttaattggca ccataact                               398
```

<210> 715
<211> 480
<212> DNA
<213> Homo sapiens

<220>
<221> miscfeature
<222> (207)..(208)
<223> n is a, c, g, or t
<400> 715

tacttaggtc aaatttctgt tctctcttcc ccaaataata ttaaagtatt atttgaactt 60
ttaagatga ggcagttccc ctgaaaaagt taatgcagct ctccatcaga atccactctt 120
ctagggatat gaaaatctct taacaccacac cctacataca cagacacaca cacacacaca 180
cacacacaca cacacacaca cacacanntt caccctaagg atccaatgga atactgaaaa 240
gaaatcactt ccttgaaaat tttattaaaa aacaaacaaa caaacaaaaa gcctgtccac 300
ccttgagaat ccttcctctc ctggaacgt caatgtttgt gtagatgaaa ccatctcatg 360
ctctgtggct ccagggttct tgttactatt ttatgcactt gggagaaggc ttagaataaa 420
agatgtagca cattttgctt tcccatttat tgtttggcca gctatgcaa tgtggtgcta 480

<210> 716
<211> 559
<212> DNA
<213> Homo sapiens
<400> 716

tacctcgcga gcagtgtctc tgaggactag caaagtctgg aggagatga atggtttctg 60
accctacca gggctgtgga aggggtggggg tgggtcatta tagtattcag gatttacagt 120
gcagtattca cgtgtaactt ttaagtttcc agtacagtgc tttataacct ttaatgcaat 180
gttgatttca ttgggtact attgtgtagt atttaggatg tatgcatgtt tgtttatag 240
taagcttggt tgggtcttcc gcttttgtgc tacctttctt ggattttgt accagagatg 300
tgctaaactg atgaaataca ttgagaaagt ttccatctta ttctttata tgggactgat 360
gatgtgtgtt ggggtagact gtcctgcag agtttggaag aagtcaccag caaagccggc 420
ctaaccaaga aaagtcaagg cccttcatga ccttgctggg cacagaaaac accctcgtgg 480
agtacactaa ttgaactgg actggtctca gtgtgagcac ttggcacact ttactaaaca 540
catatacaac cccaccgtg 559

<210> 717
<211> 382
<212> DNA
<213> Homo sapiens
<400> 717

tccagccctc cggagagtgg gcttggccct aggccctcca gctcagccag aaaaagccca 60
gaaaccagg tgctggacca gggccctcag ggaggggacc ctgcggctag agtgggctag 120
gccctggctt tgcccgtcag atttgaacga atgtgtgtcc cttagagcca aggagagcgg 180
caggaggggt gggaccaggc tgggaggaca gagccagcag ctgccatgcc ctctgctcc 240
ccccaccca gccctagccc tttagccttt caccctgtgc tctggaaagg ctaccaaata 300
ctggccaagg tcaggaggag caaaaatgag ccagcaccag cgccttggtt ttgtgttagc 360
atttctctct gaagtgttct gt 382

<210> 718
<211> 486

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (77)..(77)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (351)..(351)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (457)..(457)

<223> n is a, c, g, or t

<400> 718

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ggtagatcgaa aactgtggcc atgtggaacc cggctctgtg ggggactgtt tctccatctt   60
gactcagaca gttcctngga aacaccgggg ctctgtttt atttctttg atgttttct   120
tcttagtag ctgggctgc agcctccact ctctagtcac tggggaggag tatttttgt   180
tatgtttgt ttcatttct ggcagagctg gggcttttg tggatccct ctgggtgtga   240
gtttctgac ccaaccagcc tctggttagc atcatttga catttaaacc tgtaaatagt   300
tgttacaag caaagagatt atttattcc atccaaagct ctttgaaca ncccccccc   360
ttaatccct cgttcaggac gatgagcttg cttccttca acctgtttg ttcttattt   420
aagactattt attaattggt ggaccaatgt actcacngct gttgcgtcga gcagtcctta   480
gtgaaa                                         486

```

<210> 719

<211> 181

<212> DNA

<213> Homo sapiens

<400> 719

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tgagggttc agagagcctt ttctaggcc tacatgctt gtgaacaagt ccctgtaatt   60
gtgtttgta tgtataatc aaagcaccaa aataagaaa gatgtagatt tatttcatca   120
tattatacag accgaactgt tgtataaatt tatttactgc tagtcttaag aactgcttc   180
t                                         181

```

<210> 720

<211> 464

<212> DNA

<213> Homo sapiens

<400> 720

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tcctgtaat tgtgtttgt atgtataatt caaagcacca aaataagaaa agatgtagat   60
ttattcatc atattatata gaccgaactg ttgtataaat ttattactg ctagtcttaa   120
gaactgctt ctttcttgg ttgtttcaa tatttccct ctctctcaat tttggttga   180
ataaactaga ttacattcag ttggcctaag gtggttgtgc tcggagggtt tctgtttct   240
ttccatttt gtttttggat gatatttatt aatagcttc taagagtccg gcggcatctg   300
tcttgccct attcctgcag cctgtgctga gggtagcagt gtatgagcta ccagcgtgca   360
tgtcagcgac cctggccccg caggccacgt cctgcaatcg gcccggtgc ctctcgccc   420
tgtcgtgttc tgtgttagtg atcactgcct ttaatacagt ctgt                                         464

```

<210> 721

<211> 426

<212> DNA

<213> Homo sapiens

<400> 721

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ttcgactgc attttgcag gagcagtatc atgaagccta aacgcgatgg atatatgtt   60
ttgaaggcag aaagcaaat tatgtttgcc actttgcaaa ggagctcact gtggtgtctg  120
tgttccaacc actgaatctg gaccccatct gtgaataagc cattctgact catatcccct  180
atttaacagg gtctctagtg ctgtgaaaaa aaaaaaatgc tgaacattgc atataactta  240
tattgtaaga aatactgtac aatgacttta ttgcatctgg gtagctgtaa ggcatgaagg  300
atgccaaaga gtttaaggaa tatgggagaa atagtgtgga aattaagaag aaactagggtc  360
tgatattcaa atggacaaac tgccagtttt gtttccttc actggccaca gttgtttgat  420
gcatta                                     426
```

<210> 722

<211> 445

<212> DNA

<213> Homo sapiens

<400> 722

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agccggagcc ggatgcagta ggactggact cgggccatat ccgtggtgcc gtcaacatgc   60
ctttcatgga ctctctgact gaggatggct tcgagaaggg cccagaagag ctccgtgctc  120
tgttccagac caagaagggt gatctctcgc agcctctcat tgccacgtgc cgcaaggagg  180
tcaccgcctg ccaGgtggcc ttggctgcct acctctgcgg caagcctgat gtggccgtgt  240
acgatggctc ctggtccgag tggtttcgcc gggccccccc agagagccgt gtgtcccagg  300
gaaagtctga gaaggcctga gccgtgacct ctctgctta ctgtaactgc ggccgggtta  360
gtgaccccat gacttacagc cggttcttac ctcttaggtg aaggagatga catgtttttt  420
agaattgctg tgcaaggctc acct                                     445
```

<210> 723

<211> 501

<212> DNA

<213> Homo sapiens

<400> 723

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gcagggctag ttattccgat ttctgcaca attatttagc ttttgtaag ttcaacatgt   60
aaattttaa gacataaata tagagagact tatgtgttg aatataaatg atatatatgg  120
attagcatgt acctgtatat tattaaacat gcaatgaact gactggtgag tgacgtctaa  180
ttgtatggct agcaatgtaa ttattcaga ctgtattttt gtacagagca gtgcactcta  240
acctatgcct ctgtgtcttc tttaatgcct aaagctgtgc ctagaaattt catctgtctt  300
aaaagtataa tatacttcat gctgtttatg ctattagttt ctgtactgct attctatatt  360
tattattttt aaatatatga catgtttact acttaaacat gaattcatgg tatectgggt  420
atttttttta agtcatctgg gggaaaacct gtttatcact ccagtgattt tgagtttgca  480
gtttcacaat cagttcttca t                                     501
```

<210> 724

<211> 477

<212> DNA

<213> Homo sapiens

<400> 724

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aaggagctta ttctggctc catcgctaac acgttgactg cttattatgg gaaagtttc   60
tctgaagcca gggagaagca ttgattgatg tgggcaaatc caagctccag ccaggctcga  120
```

gtcccaaatg cgcacatcac tgactccagg gaccagggac atggagaaag ctgtttatga 180
 tatctttaac caggccctct tactagagct ggtgtttgtg actggccaac aagatgtggc 240
 tatgccaggg gacatctgag tatgtgcca gtcatctttt ttacaggtt gaaggagag 300
 aaaagatttt gagttaaggt cattggctgc tctactctgt ccctacctg gtcacctagt 360
 gatagcccca gtggagatac tgtccataca aggtcttccc agaggctgga taccacagta 420
 aaaggccagg ccaggagggg taggagacta tggagatctt acctcctgat aaatgtg 477

<210> 725

<211> 444

<212> DNA

<213> Homo sapiens

<400> 725

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 aaatcaagaa gaacactttt ctccctttc cacaacaaat aaaacttaac agcatcaaat 120
 tattgggacc agaaaccaag taatgtataa tgtggctttt gttgagtaa ataagatgct 180
 atataatgga gaagaatttg aaaatgcaca aaaaaatcaa tctacattat cagaacctgc 240
 agtgaatta aacttatgtt aaataaaacc agttgcagg tgcacaaact atgagggtct 300
 tgtatccacg taacacaggt agttacaaa acatgttatt gtactgtgta aagatgcata 360
 gtcattcat ttggttggt ttgtacctg taccttttt agccttggt tttgtgaac 420
 tagaacctc agcacatact gtgt 444

<210> 726

<211> 475

<212> DNA

<213> Homo sapiens

<400> 726

gagagctcgc ttgagtgc tgggtttgt gattgcctct gaagcctatg tatgcatgg 60
 aggcactaac aaactctgag gttccgaaa tcagaagcga aaaaatcagt gaataacca 120
 tcatctgcc actaccctt cctgaagcca cagcagggtt tcagggtcca atcagaactg 180
 ttggcaaggt gacatttcca tgcataaatg cgtccacag aagtcctgg tggattttgt 240
 aacttttgc aaggcattt tttatatata ttttgtgca cattttttt tacgtttctt 300
 tagaaaacaa atgtatttca aaatatatt atagtcgaac aattcatata ttgaagtgg 360
 agccatatga atgtcagtag tttacttct tctattatct caaactactg gcaatttga 420
 aagaaatata tatgatata atgtgtgatt gcagctttc aatgttagcc acagt 475

<210> 727

<211> 317

<212> DNA

<213> Homo sapiens

<400> 727

gattttctag tgctggtatt tgttgactac catgcagaag ggctatctt ctattcacgt 60
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 gggctctgat ttgtgggaac agaccttct gtaataaacc actatttgag ttgtggcagg 180
 aggatgataa agcacgcggc cctcccaaa ggagcccttg agctaggag gtggtgcagt 240
 cagcctcgt ctcaactgta cccggggaat gaccaccag agggatgagc tagcctgtag 300
 aggggaactg ggggtcca 317

<210> 728

<211> 496

<212> DNA

<213> Homo sapiens

<400> 728

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tctggtgcc tatagtgtc tgggatccca tcgagaagaa ccatgggtgg acccgaactc   60
cccggtgtc ttggaggacc cagtccttg tgccttggca aaaaagcaca agcgaacccc   120
agccctgatt gccctgcgt accagctgca gcgtaggggt gtggtcctgg ccaagagcta   180
caatgagcag cgcacagac agaacgtgca ggtgttgaa ttccagttga cttcagagga   240
gatgaaagcc atagatggcc taaacagaaa tgtgcgatat ttgacccttg atattttgc   300
tggccccct aattatccat ttctgatga atattaacat ggagggcatt gcatgaggtc   360
tgccagaagg ccctgcgtgt ggtgggtgac acagaggatg gctctatgct ggtgactgga   420
cacatgcct ctggttaaat ctctcctgt tggcgacttc agtaagctac agctaagccc   480
atcgccgga aaagaa                               496
```

<210> 729

<211> 425

<212> DNA

<213> Homo sapiens

<400> 729

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gaagcacggt atgatgacca aacataaaaa gtgtttata attgttggtg tttaataac   60
aactaatatt attactctga tagttaaact aactcgagat tctcagagtt tatgcccta   120
tgattggatt ggttccaaa acaaatgcta ttattctct aaagaagaag gagattggaa   180
ttcaagtaaa tacaactgtt cactcaaca tgccgaccta actataattg acaacataga   240
agaaacgaat ttcttaggc ggtataaat cagttctgat cactggattg gactgaagat   300
ggcaaaaaat cgaacaggac aatgggtaga tggagctaca ttaccaaatt cgtttggcat   360
gagagggagt gaaggatgtg cctacctcag cgatgatggt gcagcaacag ctagatgta   420
caccg                                           425
```

<210> 730

<211> 400

<212> DNA

<213> Homo sapiens

<400> 730

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gaacacgcag agagttccc tagatatact cctgcctcca ggtgctggga cacaccttg   60
caaaatgctg tgggaagcag gagctgggga gctgtgttaa gtcaaagtag aaacctcca   120
gtgtttggtg ttgttagag aataggacat agggtaaaga ggccaagctg cctgtagtta   180
gtagagaaga atggatgtgg ttcttctgt gtatttatt gtatcataaa cacttgaac   240
aacaagacc ataagcatca ttagcagtt gtagccattt tctagttaac tcatgtaaac   300
aagtaagagt aacataacag tattaccctt tctgttct cacaggacat gtacctaat   360
atggtactta ttatgtagt cactgtattt ctggattttt                               400
```

<210> 731

<211> 459

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (32)..(32)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (78)..(78)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (82)..(82)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (242)..(242)

<223> n is a, c, g, or t

<400> 731

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tcagaatagc cacatttnga anacttttg ttatcagtca atatttttag atagrtagaa    120
cctggtccta agcctaaaag tgggcttgat tctgcagtaa atcttttaca actgcctcga    180
cacacataaa cctttttaa aatagacact ccccgaaagtc ttgtgtcgc atggtcacac    240
anctgatgct tagatgttcc agtaatctaa tatggccaca gtagtcttga tgaccaaagt    300
ccttttttc catctttaga aaactacatg ggaacaaaca gatcgaacag tttgaagct    360
actgtgtgtg tgaatgaaca ctcttgctt attccagaat gctgtacatc tattttggat    420
tgtatattgt gttgtgtat ttacgcttg attcatagt                    459
```

<210> 732

<211> 528

<212> DNA

<213> Homo sapiens

<400> 732

```
aacactaggg ccttggaat tcctgtactg tgtctcatgg attggcact agccaaagcg    60
aggcaccctt actggcttac ctctcatgg cagcctactc tccttgagga tgagtagcca    120
gggtaagggg taaaggatag taagcataga aaccattaga aagtgggctt aatggagttc    180
ttgtggcctc agctcaatgc agtagctga agaattgaaa gttttgttt ggagacgttt    240
ataacagaaa tggaagcaga gtttcatta atccttttac cttttttt ttcttggtaa    300
tcccataaaa taacagtatg tgggatattg aatgttaaag ggatatttt tctattattt    360
ttataattgt acaaaattaa gcaaatgtta aaagttttat atgctttatt aatgttttca    420
aaaggtatta tacatgtgat acattttta agcttcagtt gctgtcttc tggactttc    480
tgttatgggc ttttggggag ccagaagcca atctacaatc tctttttg                    528
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<210> 733

<211> 570

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (233)..(233)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (252)..(252)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (259)..(259)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (347)..(347)

<223> n is a, c, g, or t

<400> 733

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ttctgtgcc ttccccctc agatggagac ttcattatgt taatgaacaa gatatgaaga 120
aaatggcact cattgtggcc ttgtgaatt atgtgtgtga tgtttaaca tctctgatgc 180
tgtgttacta aaattacaag gacctgcttt taaaaggcc agaacaattg tcntgaaatt 240
agtaacaatg cntgcatcnt agattggagt gctgcacaaa caacataag agcaaagcaa 300
aactgtatca cataggggtt ttggtcactc acaacctgaa ttcaccnaca gctggaatag 360
ctgtggaaaa caaataaaa caacaaaatt aataatgaaa tggaggggaa ttctagaatt 420
atatgctaaa tgcattttt atgatttgc gtattaactg atgataaac taatggcaga 480
aaaagaagt gagcaattc tatgtaatgt acagatacta gcattgcaca tatagtctgc 540
ttctgttcc tccagaattt gagtctgtt 570
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<210> 734

<211> 246

<212> DNA

<213> Homo sapiens

<400> 734

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agttaagta cagtactat tcaagccat ttccacagg aaaacgagtg tgtgctggag 60
aaggcctggc tcgcatggag ttgtttctt ttgtgtgtgc cattttgcag cattttaatt 120
tgaagcctct cgtagacca aaggatatcg acctcagccc tatacatatt gggtttggt 180
gtatcccacc acgttacaaa ctctgtgtca tccccgctc atgagtgtgt ggaggacacc 240
ctgaac 246
```

<210> 735

<211> 358

<212> DNA

<213> Homo sapiens

<400> 735

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ccgggggcct atggcagtga tgctgtgttg gtttcctagg gatgctctaa cgaattacca 60
caaacctggt ggattgaac agcagaactt gattccctta cagttctgga ggctggaat 120
ctgggatgga ggtgttgga gggctgtggt ccctttgaag gctctgggga agaaccctc 180
ctgggtctt tttagctgt ggcggcagtg ggcagtccgt ggcattcccc agcttattgc 240
tgcatcactc cagtctctgt ctctctgtt ctctccttt ttaacaacag tcattggatt 300
tagggccac cctaaccctg tgtgatctta tcttgatcct tattaattaa acctgcaa 358
```

<210> 736

<211> 454

<212> DNA

<213> Homo sapiens

<400> 736

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gtagctctga tgagaatggg gtcccagatg gctcaggctg tgacctcctt gggcaccacc 60
ctccccaggc tgggtgtgga ggagttgggg cccctgcct tcaggaggct ttagtttag 120
aagggaagta ggcattacca tagacgactc ctaggagaca gtgctatgta aaatgtgtg 180
tctataaatg ttatcatgc atgtattcta gagctcattc atttattcaa caacatttg 240
```

gtgagcacct atttcggttc gagaaacttc atttatctcc tataattggc aaacttaaaa 300
atgcagcaga aacttacatt ccaaccttag agactcatag tgagcacaag gaaagttttg 360
ccctgagatt catggttatg gctgggtacc accaaataga agaatggctt aggggagtg 420
cccttcactg agatgtgttt ctttgtgaa cttt 454

<210> 737

<211> 226

<212> DNA

<213> Homo sapiens

<400> 737

aacgaactga actaggcctg gtggaaggag gcgcacttcc ctctggcag aatgctagct 60
ctgagccagt tcagtacctg gaggaggagc aggggcgtgg agggcgtgga gggcgtggga 120
gcgtgggagg cgggagtgga gtggaagaag agggagagat ggagcaaagt gagggccgag 180
tgagagcgtg ctccagcctg gctccacag gcagctttaa ccatta 226

<210> 738

<211> 560

<212> DNA

<213> Homo sapiens

<400> 738

tctactcgt gacttgccat gagaccaagt ttccaagca ttgcgtgaag tgcaacaagg 60
ccatcacatc tggaggaatc acttaccagg atcagccctg gcatgccgat tgcttttgtt 120
gtgttacctg ctctaagaag ctggctgggc agcgtttcac cgctgtggag gaccagtatt 180
actgcgtgga ttgctacaag aactttgtgg ccaagaagtg tgctggatgc aagaacccca 240
tactgggaa aaggactgtg tcaagagtga gccgccagct ctctaaagct aggaagcccc 300
cagtgtgcca cgggaaacgc ttgccttca cctgtttcc cagcgccaac ctccggggca 360
ggcatccggg tggagagagg acttgccct cgctgggtggg ggttctttat agaaaaaatc 420
gaagcttagc agctcctcgt ggcccgggtt tggtaaaggc tccagtgtgg tggcctatga 480
aggacaatcc tggcacgact actgcttcca ctgcaaaaaa tgctccgtga atctggccaa 540
caagcgcttt gtttccacc 560

<210> 739

<211> 440

<212> DNA

<213> Homo sapiens

<400> 739

cccattcggc gtagtaccga gagagctcaa gatgtgtggc agtttctgga tggaagctcg 60
agagccctta agttctgaga aaatttgaag cccccagggg tggggtggac gcgtgccgcc 120
cagtcgacgt cagcgtgggc tgctatcctg ctagtgttg atgtttctg acagtagcct 180
ccaagaagcc gttgtgcgaa gacagagtcc tgagagtc ttccagccta ggcctgcagc 240
gccatttat ttatatttt taataaaaag taaaaacaaa aaacagacc cacattggaa 300
cagtgaatca gtccataga gagggcccgt ggaccatcgc tgctatgagt gatgccctgg 360
cccttctgaa accagccaac ctaattacct gtattgtgga aatgcgcatg agtccccaac 420
cccttggttc tatacattct 440

<210> 740

<211> 473

<212> DNA

<213> Homo sapiens

<400> 740

tggaggcgca ggcacaaggt ttgttgaga ctgaaccgtt gcaaggaaca gacgaagatg 60
cagtagccag tgctgacttc tctagcatgc tctctgagga ggaaaaggaa gagttaaag 120
cagagttagt tcagctagaa gacgaaatta caacactacg acaagttttg tcagcgaaag 180
aaaggcatct agttgagata aaacaaaaac tcggcatgaa cctgatgaat gaattaaaac 240
agaacttcag caaaagctgg catgacatgc agactaccac tgcctacaag aaaacacatg 300
aaaccctgag tcacgcaggg caaaaggcaa ctgcagcttt cagcaacgtt ggaacggcca 360
tcagcaagaa gttcggagac atgagacgaa agtaggcggt acgaacccta atggaggcag 420
tttgaggag gtcctcagct ccacggccca tgccagtgc cagagcttgg cag 473

<210> 741

<21 1> 255

<212> DNA

<213> Homo sapiens

<400> 741

gttctgaaa tctgagtgt tgcctgccag tcgcatgag aacttctac cttctgtgt 60
ttactcttg cttactttg tctgagatgg cctcaggtgg taactttctc acaggccttg 120
gccacagatc tgatcattac aattgcgtca gcagtggagg gcaatgtctc tattctgctt 180
gcccgatctt taccaaaatt caaggcacct gttacagagg gaaggccaag tgctgcaagt 240
gagctgggag tgacc 255

<210> 742

<21 1> 566

<212> DNA

<213> Homo sapiens

<400> 742

ggtgattggc cacacactga gttgcacata ttgagaacct aatgcactct gggctctggcc 60
agggtctctt caatacatg cacagtcata caagtcattg tcacagtaaa gactacactc 120
agccactgtc acaggcatat tccctgcaca cacatgcata cttacagact ggaatagtgg 180
cataaggagt tagaaccaca gcagacacca ttcaatctg ctccatagc atctacttgg 240
caaggtcata gacaattctt ccagagacac tgagccagtc ttgaactgc agcaatcaca 300
aaggctgaca ttactgagt gcctactctt tgccaatccc cgtgctaagc gttttatgtg 360
gactattca ttctcacaa tgaggctatg aggaaactga gtcactcaca ttgagagtaa 420
gcacgttgcc caaggttgca cagcaagaaa agggagaagt tgagattcaa acccaggctg 480
tctagctccg ggggtacagc ccttgactc ctactgagtt tgtgtaacc agccctgcac 540
gaccctgaa tctgctgaga ggcacc 566

<210> 743

<21 1> 555

<212> DNA

<213> Homo sapiens

<400> 743

gcattccacc ggcggctacg gtggtggcaa ttccggcggc ggcggcggcg gcctacgggg 60
gcggcactcc ggcggcggca gcagctccgg cggcggatac ggcggcggca gctccagcgg 120
aggccacaag tctcctctt ccgggtccgt gggcgagctt tcatctaagg gaccaagata 180
ctaacaaaac cagagtaatc aagacaatta ttgaagaggt ggcgcccagc ggtagagttc 240
ttcatctat ggtgaatca gaaaccaaga aacactacta ttaaactgca tcaagaggag 300
agagctctcc ttacacaga ccattaattt acagatgcat ggaaaacaaa gtctccaaga 360
aaacacttct gtcttgatgg tctatggaaa tagacctga aaataaggtg tctacaaggt 420
gtttgtggt tctgtattt cttctttca cttaccaga aagtgttctt taatggaaag 480
aaaaacaact ttctgtctc atttactaat gaatttcaat aaactttctt actgatgcaa 540

acgtctgaga ttact

555

<210> 744

<211> 436

<212> DNA

<213> Homo sapiens

<400> 744

ttcgtgatgg tgttgatcct cttcctggga gcctccatgg tctacctgat ccgggtggca 60
cggaggaacc aggagcgtgc cctgcgcacc gtctggagct ccggacatga caaggagcag 120
ctggtgaaga acacatatgt cctgtgaccg ccctgtcgcc aagaggactg gggaaggag 180
gggagactat gtgtgagctt ttttaaata gcgggattga ctcggatttg agtgatcatt 240
agggctgagg tgtgtttctc tgggaggtag gacggctgct tcctggctctg gcagggatgg 300
gtttgctttg gaaatcctct aggaggctcc tcctcgcatg gcctgcagtc tggcagcagc 360
cccagttgt ttcctcgctg atcgatttct ttctccagg tagagtttct ttgcttatg 420
tgaattcca ttgcct 436

<210> 745

<211> 505

<212> DNA

<213> Homo sapiens

<400> 745

ggctccatga aggtcctttg gcacagctct gctcctcccc tgcctgccaa agccccctt 60
taggccttgg gtggctggaa ggctttgtta agggactagg agaaatgggg gtatctttcc 120
cctttcctgc cctttctgt catctcaacc tctcacagag gtgtcttctc cccctaacct 180
acagcttttt gtacaagcca ttttgttaa attattata tttaatatta ttccctgctt 240
tgtcaggagc aggtactagg ctctggggca gtgaggaact agatccttct ctctcagcc 300
tagggtggag gtcactgcac taccaccac ctctggaaga ctggctgtga aaagtcaggt 360
ggcagaaacc tggggccaca tagagcctct ctcttttct gtttcttggc tctagaagat 420
cagcactgca ctgttagctg agagtgcggg caagacataa actgtccaga gtttgaaggt 480
tctcggaag accggagggc ttctc 505

<210> 746

<211> 471

<212> DNA

<213> Homo sapiens

<400> 746

gagggccgaa cccacatgac aaagagtac tccttgcctt cttccgggt ctccacctg 60
cctctggagt cacaccacc cgacccaaac accatgggcg gggccagcca ccgggacagg 120
gctctctcgg tgactgccac cgtaggggaa accaaaggga aggacctgc ccagcccag 180
cctccccag ctaggaaaca gaacgtgggc agagacgtga ccaagccatc ccagcccca 240
aacactgacc gcccctctc tcttttaat gagaaggact ttgtgttacg gcggaggcgg 300
gggaaagaga gtttgcgtag cagccctcac aaaaaggcct tgaacgggg agggcccagg 360
ggcaggactg tggagaccg tcctgaacgg gcgactgtgt ctgactacc ttcaaaacc 420
agcactgtgt gggaatgtcc gccaggcaga gtcggagcc tcattgagac a 471

<210> 747

<211> 256

<212> DNA

<213> Homo sapiens

<400> 747

cgctaggtgc ctgctaggtg catggccaca gagcatgggc tgggcctggg cacaggagga 60
gcagctgctt tggtcggggg ggagactcgc agcagctgct accacagcc tattccactc 120
ctccccatct ccaggcgctg ggaggggggg cctcaccocg tcacgcctcg ctccctcctg 180
gccctctggt ccagccctc acgcctcctc tcagtctact caattgtgac tgcctcctc 240
gatgtatttt ttttct 256

<210> 748

<211> 528

<212> DNA

<213> Homo sapiens

<400> 748

agccctcgct tgtgtgttt cagatgagtt actgttaaca ggtaggttcg tgtaggcctt 60
gctgggcact ctgtacaatt agttgcttat tacgtatgat tactcgcagc gatctattgt 120
tccatataac caaaaagcat ggtttattca ttgaaacacg gttgacctga actcgtgcct 180
taggaattaa tgccccctta tggaaacctgc ctgaattgca cctgcgggtg gaggtccgg 240
ctgtgaagtc actgaacaga acgtcgtgta tggagaaagg gctcccgagc aaggaaacggc 300
ctgtaccgtg cgctccggca caatcgctc tctgtgtct cactcacgga aagaaacaac 360
ctgaaggcca tccgctcgtg ctgcacgtaa ccgtgaagac gtgtggccgc gtccacactg 420
cggctgggta cctgcaccc ggcaactgtg gactcacgtg cagccttct caggggactg 480
tcattgaaaa ggaaacgtt gatgtctgtg tcagctgtct ttgtagt 528

<210> 749

<211> 518

<212> DNA

<213> Homo sapiens

<400> 749

agatgtgcgc aggagtacct gtcccggtg aagaaggagg agcagaggta ccaggccctg 60
aaggtgcacg cggaggagaa actggacagg gccaatgctg agattgctca ggtcgaggc 120
aaggccacg aggagcaagc cgcccaccag gccagcctgc ggaaggagca gctgcgagt 180
gacgccctgg aaaggacgct ggagcagaag aataaagaaa tagaagaact caccaagatt 240
tgtgacgaac tgattgcaa aatggggaaa agctaactct gaaccgaatg ttttgactt 300
aactgttgcg tgcaatatga ccgtcggcac actgctgttc ctccagttcc atggacaggt 360
tctgtttca cttttcgtg tgcactactg ttttcttt ctaaataaaa ttgattgat 420
tgtatgcagt actaaggaga ctatcagaat ttctgtctat tggttgcat tttctagta 480
taattcatag caagtgacc tcagagtcc tgatcag 518

<210> 750

<211> 545

<212> DNA

<213> Homo sapiens

<400> 750

aaatagcatt aaactggaat tgacagagtg agttgagcat ctctgtctaa cctgctctt 60
ctctctggtg ctctctatct caccctacc ttggaattta ataagcttca ggcatttcca 120
attgcagact aaaaccactt ctaccatctc ctctagtatt ttcatgtat caggacagag 180
atgtcttatg tagggaagg gcaagtatga agtgaggtag attatctata ccttcactc 240
attcaggatt ctgctccca tgcgtctgtc cttcattct cacactaca ggaatgctat 300
gtgatggcca gctgctccc ttcttggtta tccactgcag ctgctagtta gaaaggttg 360
cagggatgac ttttagtaaa tcattgggat ttattgatt tattatcact tataggatt 420
tgtggggtgg gactggggag cagggaattgc actcagacat gacatttcaa ttcctctg 480
caaatgaaaa ggttcttc tcttggggga aatctgtgtg tcagttctgt cagctgcaag 540

ttctt

545

<210> 751

<211> 421

<212> DNA

<213> Homo sapiens

<400> 751

gagtattaca ttggccttgg gggacagaaa ggaggaagtt ctgacttttc agggctacct 60
tattctact aaggaccag agcaggcctg tccatgcat tccttcgcac agatgaaact 120
gagctgggac tggaaaggac agcccttgac ctgggttctg ggtataatt gcactttga 180
gactggtagc taaccatctt atgagtcca atgtgtcatt tagtaaaact taaatagaaa 240
caagtcctt caaatgttcc ttggccaaa agctgaagg agttactgag aaaatagta 300
acaattactg tcaggtgtca tcaactgtca aaaggtaagc acatttagaa tttgttctt 360
gacagttaac tgactaatct tacttccaca aaatatgtga attgtctgt tctgagaggc 420
a 421

<210> 752

<211> 375

<212> DNA

<213> Homo sapiens

<400> 752

aagctatgtg tatcttctgt gtaaagcagt ggcttcactg gaaaaatggt gtggctagca 60
tttcccttgg agtGatgatg acagatgggtg tgaaaacat ctaagttgc tttgacct 120
cacctcccag tagcaatttg ctttcataat ccatttagca atccaggcct ctgtgaaaa 180
gataatatga gggagaagg aacacatttc cttctgaact tacttcccta agtcacttc 240
cttatgtatc atctaataca atgatggtg agtgaaaata cagaaggggt gtttgagtat 300
tcagatttca taaacactt ccttggata tagctgcatt aacttggaag gaagcctgtt 360
gggccagaag acaga 375

<210> 753

<211> 532

<212> DNA

<213> Homo sapiens

<400> 753

caggattggc caagtcacg ggggtgtcca acttcaacca caggctgctg gagatgatcc 60
tcaacaagcc agggctcaag tacaagcctg tctgcaacca ggtggaatgt catccttact 120
tcaaccagag aaaactgctg gatttctgca agtcaaaaga cattgttctg gttgcctata 180
gtgctctggg atcccatcga gaagaacat ggggtggacc gaactccccg gtgctcttgg 240
aggaccagct ccttctgtcc ttggcaaaa agcacaagcg aacccagcc ctgattgccc 300
tgcgtacca gctgcagcgt ggggtgttgg tcttgccaa gagtacaat gagcagcgca 360
tcagacagaa cgtgcagggt ttgaattcc agttgacttc agaggagatg aaagccatag 420
atggcctaaa cagaaatgtg cgatatttga ccttgatat tttgtctggc cccctaatt 480
atccatttc tgatgaatat taacatagag ggtgttcac gacatctagc ag 532

<210> 754

<211> 159

<212> DNA

<213> Homo sapiens

<400> 754

tcactgagca ccacattctc tagcttcttg ttgaggctgg aactgtttct ttaaatccc 60

taaattttcc catctcaaaa ttatatctgt acctgggtca tccagctcct tcttgggtgt 120
ggggaaatga gttttctttg atagtttctg cctcactca 159

<210> 755

<21 1> 378

<212> DNA

<213> Homo sapiens

<400> 755

acatctccat tacaaatgcc acagtgaag acagtggaac ctactactgt acgggcaaag 60
tgtggcagct ggactatgag tctgagcccc tcaacattac tgtaataaaa gctccgcgtg 120
agaagtactg gctacaattt ttatcccat tgttggtggt gattctgttt gctgtggaca 180
caggattatt tatctcaact cagcagcagg tcacattct ctgaagatt aagagaacca 240
ggaaaggctt cagactctg aaccacatc ctaagccaaa ccccaaaaac aactgatata 300
attactcaag aaatattgc aacattagtt ttttccagc atcagcaatt gctactcaat 360
tgtcaaacac agcttgca 378

<210> 756

<21 1> 436

<212> DNA

<213> Homo sapiens

<400> 756

agtgagaaga tctgcaccgt ccagttggtg ggtaacagct ggacccttgg ctaccccgag 60
accaggagg cgctctgccc gcaggtgaca tggctctggg accagttgcc cagcagagct 120
cttggccccg ctgctgcgcc cacactctcg ccagagtccc cagccggctc gccagccatg 180
atgctgcagc cgggccccga gctctacgac gtgatggacg cgggtcccagc gcggcgctgg 240
aaggagtctg tgcgcacgct ggggctgcgc gaggcagaga tcgaagccgt ggaggtggag 300
atcggccgct tccgagacca gcagtacgag atgctcaagc gctggcgcca gcagcagccc 360
gcggggcctg gagccgttta cgcggccctg gagcgcatgg ggctggacgg ctgcgtggaa 420
gacttgcgca gccgcc 436

<210> 757

<21 1> 441

<212> DNA

<213> Homo sapiens

<400> 757

gagagctcct gtttactaag caagcttttg tgttattat cctcattttt actgaacatt 60
gttagttttg gggtaatgga aaccactttt tcattgtaa tgactttggg ggcttttgtt 120
agtaagggtg ggtggggtga tgggttgacg acggagggtca ggtcttctc tttctgaga 180
ctggatctgt tcaaacagca aacgccaca gatggcccag aggtggtggt agtcagggtg 240
tgtgggtgtt tttaggggtc tttagtgttg ttctttcac ccagggggtg tggtcccagc 300
cagtttggtg ctgacggtga gaggaatta gaatctgttt gcaaattgtc caaccaccc 360
cctcaacatg aggggcttcc atttctgtg ttttgaagg gaactgtttc cttcatgccg 420
ccatgttct gatattagt c 441

<210> 758

<21 1> 437

<212> DNA

<213> Homo sapiens

<400> 758

ttctacctga acactgtac tcttgaagtc acaacaaaat aatgatgagc tttcacatc 60

acctttatgg ttccaatccc tagctcaaag ctctctggaa tcttttattt ttgttaaact 120
ttttttctt ttgttaaaat aaataaaaaca ttcaatgttt ttctcctttt ctctcttatt 180
acttctttcc ttggcattt tcaatttgaa atgctttcct ttggttggtg gttttattct 240
ccccctaccc ctcccccttt ctattattc agaataataa cctgcaaagc tctgctctgt 300
tttggttttg aaagttaag cttttctgct tctgtgagag cacaggcttc tgccctttt 360
gattccaact gaactttgt gtctctaata gatactaaca cgggttaggt ttacagtct 420
cctaatttgt actgga 437

<210> 759

<211> 402

<212> DNA

<213> Homo sapiens

<400> 759

cttaactctt ttgacatctg ctattgtgac acatGccatt gctggcaatg tgggtgcacac 60
tccgaaactt ttaactactg tttgtaagc ctccaagggt ggcattgcag ggtccttagg 120
caatgttttg ttgcttta tgcagagagg tgctccaagt gctgtgattg agcaccgtgc 180
tagaggaact gtaatgttc agaagttgta gcttatacaa aggaaacagg tctgctggc 240
ttaattaaa cagtattgc atgaagtagc gtggaggccc tggactgtg ctggttctt 300
aggatggact gttctggat ctggtattgg ttagagact gtaataagg gacatcacia 360
ggtgatggga ttcattgaa gcaactctatt tctgttttaa tg 402

<210> 760

<211> 501

<212> DNA

<213> Homo sapiens

<400> 760

cagaaaaaggc ataccacgag cagctgtcgg tggcagagat caccaatgcc tgetttgagc 60
ctgccaacca gatggtaaag tgtgatcccc ggcacggcaa gtacatggcc tgetgcctgc 120
tgtaccgtgg agatgtgggt cccaaggatg tcaacgctgc cattgccgcc atcaagacca 180
agcgcagcat tcagtttgtg gactgggtgcc ccacaggctt caaggttggt atcaactacc 240
agcctccac tgtggtgctt gggggtgacc tggccaagggt gcagcgtgcc gtgtgcatgc 300
tgagcaacac gaccgccatc gccgaggcct gggcccgctt ggaccacaag ttcgacctga 360
tgtatgccaa gagggcgctt gtgcactggt atgtgggtga gggcatggag gagggtagt 420
tctccgaggc ccgtgaggat atggctgccc tggagaagga ttatgaggag gtgggcatcg 480
actctatga ggacgaggat g 501

<210> 761

<211> 441

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (35)..(35)

<223> n is a, c, g, or t

<400> 761

tgttacatgg cagcttaggc agactagatc ttgnttttc caatgcagca taatgagtat 60
gatctatttc tttcaaata atctttgaga tcccaggaaa aaaaaaatgc tctgtccat 120
tgagctataa tgtaaatgtg tttgttaaa aaacaggtga ggcaagtga tgattattg 180
ttctgagga agtatatctg atttttttc tcatactcca aaagctagtc cctactctt 240

aataaaaata atgggtaact tttgtttt cactagcgaa ctccatgac atttccttc 300
tatgtagtgt gattaatgca atacatatta tagttatcta tacacagtgt aagatttaac 360
aaactgaaat gatccacctc atatgtgagt ccgtccaaaa gatgttactg ctctgggtgg 420
gccagtgttc tatatcggtt a 441

<210> 762
<21 1> 521
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (82)..(82)
<223> n is a, c, g, or t
<220>
<221> misc_feature
<222> (89)..(89)
<223> n is a, c, g, or t
<400> 762
ctgtgcgacg agtttcagct ggccaagaaa ggagtcaagt tattaaaaag catcacaatg 60
tagatctcca ggctggttt tngttttng ttgtaagac tggggaaagg gggactattt 120
attctgcctt aaatcaatgg caaataagtc aagatgacat ttgtgaatg tagactatgg 180
atacactcct aatagattga tgtatgcata aaaggggggc aagtagatgt ttttctgtta 240
tgaagcaat aattttccg tgtcttattg agtatggcta gcgattattt attacatgct 300
agatgggttc ttgcatgtg ggttccatat aggtgcagaa atttcctcag ccaactggagg 360
gatttcgacc atattgtca ttggatgag ctgttattag attgaaatct acacatcatt 420
tcattaaaaa ttgtgcctta gaaaacgcaa agctgttgca catggcgata aattatggat 480
gcagtacatt gaagagagat gaagtcactt ccaagtticc a 521

<210> 763
<21 1> 462
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (64)..(65)
<223> n is a, c, g, or t
<220>
<221> misc_feature
<222> (115)..(1 15)
<223> n is a, c, g, or t
<220>
<221> misc_feature
<222> (121)..(121)
<223> n is a, c, g, or t
<220>
<221> misc_feature
<222> (422)..(422)
<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (432)..(432)

<223> n is a, c, g, or t

<400> 763

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gggggctcag tgagcactac tcacagatcc acacctgacc ctgttgggtc gagtcaggct   60
gggπnttgggt ctgcaactgta gcacctgtgt tctttgagtt cacatcatga atgtnggtga   120
nttcccagat accatctcag gcttaaccta gcacatccta tttcttttct tctatgatat   180
ccaaattgga ctgacctcac ttcaaagttg ctgtcccat tttgcaccct atcttatctc   240
ggggaaattg cagactgatg gccagaccaa ctctgttgaa attcttgcat agagcaaacc   300
tgtgctcatt ttaagtggc atgggagagg cccaagcct agtaaagcct agtctgtgtc   360
ttcacagtgc tggtagaatg tgtttgtgtg tataaatata tgatatagat ttatatatgt   420
tntaacgcc anatattgaa ggccaacata actggtggac ag                           462
```

<210> 764

<211> 495

<212> DNA

<213> Homo sapiens

<400> 764

```
gtgaaccagg agatttagtg cttttatatt catttccttg catttaagaa aatatgaaag   60
cttaaggaat tatgtgagct taaaactagt caagcagttt agaaccaaag gcctatatta   120
ataaccgcaa ctatgctgaa aagtacaaag tagtacagta tattgttatg tacatatcat   180
tgttaataca gtcttgcat tctgtacata tatgtattac atttctacat tttaataact   240
cacatgggct tatgcattaa gtttaattgt gataaatttg tgctgttcca gtatatgcaa   300
tacactttaa tgttttattc ttgtacataa aaatgtgcaa tatggagatg tatacagtct   360
ttactatatt aggtttataa acagttttaa gaatttcac ctttgccaa aatggtggag   420
tatgtaattg gtaaatcata aatcctgtgg tgaatggtgg tgtactttaa agctgtcacc   480
atgttatatt ttctt                           495
```

<210> 765

<211> 458

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (82)..(82)

<223> n is a, c, g, or t

<400> 765

```
gcaatcttgg aatcctcaac tgcagtaagc atttcaaat gcaacaaaac tgcttaacaa   60
ctgacaagac accagcccat angctgctct tccaacagtg gggtctagct ttgaacaaaa   120
gtgctaaaca ttccctgaa tatattcttc ctcttttgt cctcatcact caatactggt   180
gctcttgta caggtagaac agcttgtttc ttcccatct attcaagtgt gtttctaatt   240
ctaaaatgct gatcttctct ggagtctatg taggcaatt atggtcactg gaatagtttg   300
tcttgtttta aaatattatt ggtgcatgta caacagcatc caacatatct gtctgttcc   360
tagatatata gctctgattt taggcctttt gtgcatacca ttacaatatg gtggggtgag   420
acattctaca gtagcctgtg ctgaactgat ctcttaaa                           458
```

<210> 766

<211> 414

<212> DNA

<213> Homo sapiens

<400> 766

```
aattctcact gttcactttt aactgacaaa gaaaaacaag tggaaactac agaaactgtg   60
gtagaacttt tacttgctgg tctggctttg gttgtaccca tcttggcca gtcacataac   120
tactcaagaa accttcccaa tagagtacaa caggatgaga ctctgaaatc actttcagta   180
ttccctgcta gatattgatt gttatttcaa gtattaagtg taagcttta atggataatt   240
agtataactg tggatggcat ctgattttgt tttaattct gtggattgtg ttaagcaat   300
tcaatagtat gttcctgatt ttgagatgct aagtgggtatt gcacagtgt cactttatca   360
agtgtgtaca acagtcccat gaagtttata gagcataccc ttgtatagct tcag       414
```

<210> 767

<211> 441

<212> DNA

<213> Homo sapiens

<400> 767

```
tttcgagggg gcaaggaggg acagaaaagt aacctcttct taagtggaat attctaataa   60
gctacctttt gtaagtgcc a tgtttattat ctaatcattc caagtttgc attgatgtct   120
gactgccact ctttcttcc aaggacagtg tttttgtag taaaactact ggttataca   180
aagctttatt tagggggtaa agttaagctg ctaaaacccc atgtggctg ctgctgttga   240
gatactgtgc ttggggagta aaaaaagaaa gttatttctt tgtcttaaag aattttaaa   300
aaattagtca tgagacttat tcattcttcc aggaacata ctgattggc ttaaagact   360
agacagttaa gtaaaaggtg gctggaacat ctattttctt acaaaactgg aaaaatgaac   420
ctggttctag aagaatgtac a                               441
```

<210> 768

<211> 529

<212> DNA

<213> Homo sapiens

<400> 768

```
gcagccaagg tctgtgttca gcacttggc tctgttgtta cgtaaaataa taagcattta   60
aaatagttta cagatatttt tgaccagtc ctttagaga ttcttcaga gaagaaacca   120
gatctgacct gtttattgtt ggcgctgtt gaaaacgagc ttctttccc atgatagtgc   180
ttcgtttttg aagtgtttaa gctgtgtccc ccttaaatcg tggcaggaga gattaaggta   240
attacaacac tcagtcttat gtcttacaag cactttgtct tgtctctgca agaaaattcg   300
attccagtc tttccataa aatacagaca tttaccaac ataatatgct ttgattgatg   360
cagcattatg cttgggcag tattacaaaa tagctggcga gtgctttctg tatttaata   420
ttgtaaaaag aaaataagtt ataactgtta taaagcagaa ctttgttgc atttttaaa   480
ctgtgaagt cactgtgtat gttgtttgg tcaatgttc cgcagtatt       529
```

<210> 769

<211> 474

<212> DNA

<213> Homo sapiens

<400> 769

```
gaactcatgt gattaccct ttcaacttt ttgaaaacg atttaattta ttctaattag   60
attaacccta ttaacttatg gattgggtat caaatgaat gccagtccag atgtgcctag   120
acacgaaatt ggagctgagg actctcacga tatgcaagtt catccaact gaagatacca   180
taagcttttt cctgaacca gagaaatgaa agtcagttta agaggctgat agatcttggc   240
cctgttaagg catccacttc acagtctga aggtgagtc agccccactc cacagttagg   300
```

ccaagaatta gattttaaaa ctctatctgt ctgtcccagt taactgttaa ataaggcctc 360
atcctccact gaagagtatg gattgaagga ttgtgaacta tgtttagtgt gattgtgaac 420
ttggtgccta atgttccatg tctgaagttt gccccagtgc tacacgttgg agta 474

<210> 770

<211> 536

<212> DNA

<213> Homo sapiens

<400> 770

ccctaagcc tgggctcatg gagcccctgc ccagggccct cagggtgggcg gaaagtccat 60
cccctccgcc cttcaggaag gatgctcccg ttgtcagggg tctcctgcct gtgccatcca 120
ctggggctcg agacaatttc cactcacct gtgaggccgg ttgtgctgct tccctgttaa 180
atagtgttc tctgtaaga agccaaatat ttaagctcac ttctcccag agagaggaag 240
ctctgctcag gcctccagcg ttggctggcc atggccacag ccagatggag gagcccatcc 300
ccaggagact caggcagtgg cctggagagg cttgttctg taacggtgcc tttcttagg 360
gtccaggcag gaatgaagcc aataatttat tgctttccat tctgtggtat gatgtgcgtg 420
tgcgtgagtg ttgtggccctt gttattccc ctctgtcaa gaatgaagtg gattcagttc 480
aggtactttt gagggttgtt gtgctgacct ttgtgtgtc gctgatgtac acacat 536

<210> 771

<211> 549

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (225)..(225)

<223> n is a, c, g, or t

<400> 771

ggatgggctg gaccaggtgg gacagattag ctgatgcctt tgtcacctgc cctctgtgca 60
ccctgagagc tcacagtaac actgtgtgtg tcaccatata actgcacctc acccccgcac 120
gtgtgcatga ctgcagaga atattccagc aattgtgtac ccctggggcca gtctcttga 180
accctgaggg ttggccaggat ctggagctgc atctctaagg ggccnaggct ttggggacca 240
ttgccaaagg ttgactcagg aggaaagaca cttaaagaca cttttacatg tctagtaatt 300
cttgatgttc atcttcagca ccagtggaaa cacatgaact tcgatgcagg tcagagacc 360
atggacactc ccacgaggct cagctctcag gcacccccta cacttcagtt gagggaaaag 420
ctcaagtgcc ttaggcccgt ggaccacagt cttggctgag atcaaaggga tgagcaacag 480
ggacttctgc cacagtgaca atggaattgt gttgtgcctt acttcagagg tggctcttc 540
ttcttgta 549

<210> 772

<211> 443

<212> DNA

<213> Homo sapiens

<400> 772

ttcttgagtt gaaactctc ctgtgggtac tggattgag aaatcagcta ccaaagtga 60
aaaggacaag atcaattctt tttagtcag ttctaagact gctagagaga gataccaggc 120
ccttagcctt gctctcagta gcgtcagccc cagttctgag cctccccaca ttacttaa 180
caagcagtaa aggagtgagc actttgggtc cttagactca tgtctgggga ggaagagcaa 240
gtagaaaagt ggcattttct tgattggaaa gggggaagga tcttattgca cttgggctgt 300

tcagaatgta gaaaggacat atttgaggaa gtatctattt gagcactgat ttactctgta 360
 aaaagcaaaa tctctctgtc cttaaactaat ggaagcgatt ctccatgct catgtgtaat 420
 ggtttaacg ttactcactg gag 443

<210> 773
 <211> 475
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (192)..(192)
 <223> n is a, c, g, or t
 <220>
 <221> misc_feature
 <222> (195)..(195)
 <223> n is a, c, g, or t
 <220>
 <221> misc_feature
 <222> (222)..(222)
 <223> n is a, c, g, or t
 <220>
 <221> misc_feature
 <222> (351)..(351)
 <223> n is a, c, g, or t
 <400> 773

taatctcagc gctcttgatc tggaaacttc agagtacaaa ttggtggatg gtggaaggca 60
 ggacacgtat ctctgtctga cggaaaacag acctcggggc tggcgtaaac cctgctgcc 120
 ggccctctcc ccaactgccc aaaccggcct agacacgaag accaaagcag cctgcacagg 180
 gcaaggcccc cngcngaate ctgcagagca aactcagggt ancttgggtc catgaccgtt 240
 tgcattcgaa acacaataca ctgcctcgtt ctctcagtta gcagctgggc agcagcgcac 300
 cattcatcat ttaggcttgt ggtttgtgtt ttactctacc aatgttatgt ngaaactgca 360
 ttgtaaaaag agaagaaaat ggcaggtttt ccagggtccac ggaaggttt ggctgacgc 420
 tggagtgcgg tgatgaactt acgtgacaat gattgtattc ctcatgtagca ctta 475

<210> 774
 <211> 504
 <212> DNA
 <213> Homo sapiens
 <400> 774

gaattcacac ggtactcaga ggcactgctg gggaagtttg ttggtcttta ttagataaat 60
 ttccagagac ctgtccataa tacccaacag aacatgactg ttctttgag gaaagggta 120
 taatgtctgt ggtgtacaag tcgttttgg tataacttct ttctgctgc tgctgctcc 180
 cggcaaacat agttttccta ttccaggcag agtgcgggtat attccaggaa acactgtttc 240
 ctactcactt agcttacttc ttgttgaat gcctcactaa tggcaagttt caagatgttt 300
 tgggtgacaa tgcacacatg ctggggcaaaa ggggtgatggc cagtggctgg cagctgggcc 360
 agcagaagct aggacatctg tgagttgtca ttctcatcta tccatgtcca ctggcctgcc 420
 agcatccgcc agtgccttgc cagtgtgcac ggtccacac tgtggcccct gagtccccta 480
 atgtacacgc tgcagccaga atgc 504

<210> 775
<211> 417
<212> DNA
<213> Homo sapiens
<400> 775

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gacgagtagt cagttattgc ttgctagcta cacaccaggg ttgatccatt ttaaaacttt   60
tggcattttg tctcatggg ccataaatac agaaccttgt attttaatta aatttttta   120
caaaaggagg cacatgcaca atctccatgt aacaaacct tagcagtagg atgtattata   180
cgacagttac ttaatttcta gagtcaggc ctctgggatc aaccccagac tgggccagaa   240
tgttagtgaa ggttttattg tgcccgggtg gaggataacg ttctttgggt acttttgtg   300
ggttgcaaat gaactcaatt gccacaagt ttaaactggt gtaaatcaag cttgacttaa   360
tgtgattgtt actgttatat ccagcctata ctgctagcag ctgctcatac tgcagtc   417
```

<210> 776
<211> 304
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (238)..(238)
<223> n is a, c, g, or t
<400> 776

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aaaagcgctt cagtgccact agcttaccgg tacactagac taagcccttg atgacttatt   60
gcatgataca gtaccaggaa caacagggtg cctaaataca tgaaaagcag tgtaagctag   120
tgacactaaa gccagtcttg tattactgta ttttgacag aatggtttg aaaactgtgc   180
tacagggact gatgtggcaa atatatctct ttatgcagaa ggaagtcttt tttttcntt   240
tttttttt taagaagtat ggctttttat gcatccttca tcgagggcat tgaagttgca   300
tgga                                     304
```

<210> 777
<211> 554
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (163)..(163)
<223> n is a, c, g, or t
<400> 777

```
gccattcccc aggctatgaa gtgacatagg cctccccac ggtgcctgtg tacggagcct   60
gatgacttca ctgggagcct tctggaatcc tgcagagggt caaggagcag ggatgttgga   120
tgcccacctg tcaagagttc agatcaaagt tgcgctgaga gcntcacaat ttgggtcag   180
ccttgacgcg ttgtccaac agtcattgg ctcccttgt atgatatcgt ggtcttctca   240
catggtgccc agtcaccaat attataatg aggtctaact acagcagtag ttttcatat   300
atatctctaa aacattttgt tatattgaaa aaagtaatag aaatcaagat gtgttgatga   360
aataaaatgt gtatctgagt gagaaaacaa gtatggtgag gtcactttaa tgttcacag   420
cgatctcaga tctaggcctc aggtagaatg gaagctgttc tgcattcact gattaacgtt   480
gctaaactct tggtaggaca cgagctacca gccaatgct cttcatcaga gctatctgtc   540
ttttagtgcc acaa                                     554
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<210> 778
<211> 147
<212> DNA
<213> Homo sapiens
<400> 778

gacaggaggg tgtccacata tgtaacatc agttggatct cctatagaag ttctgctgc 60
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gtatcacact tctaataaaa tccacaa 147

<210> 779
<211> 560
<212> DNA
<213> Homo sapiens

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<222> (175)..(177)
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<222> (179)..(181)
<223> n is a, c, g, or t
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<222> (190)..(190)
<223> n is a, c, g, or t
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<223> n is a, c, g, or t
<400> 779

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aggagactgg gaggtgaaat ggggaaatgg aagggtttgg aggcagagct gaaaacaggg 120
ttggaaggat ttctgaatt agaagacaaa cgtagcata ccagtaagg aaaannngnn 180
nagggggccan ggggaacccg tgaggatcac tctcaaatga gattaaaaac aaggaagcag 240
agaatggtca gagaatggga ttcagattgg gaacttgtgg ggaatgagagt gaccagggtg 300
aactgggaag tggaaaaagg agtttgatgc actggcacct agaagcctgc ccacgattcc 360
taggaaggct ggcagacacc ctggaaccct ggggagctac tggcaaacct tcttgattg 420
gncctnatnn ttttggtggg aaaggctgcc ctggggatca acttccttc tgtgtgtggc 480
tcaggagttc ttctgcagag atggcgctat ctttctcct cctgtgatgt cctgctccca 540
accatttgta ctcttcatta 560

<210> 780
<211> 559
<212> DNA
<213> Homo sapiens

<220>
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<222> (36)..(36)
<223> n is a, c, g, or t
<220>
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<222> (51)..(51)
<223> n is a, c, g, or t
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<221> miscjfeature
<222> (56)..(56)
<223> n is a, c, g, or t
<400> 780
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gaattaacag caactttcca caggtaaadc tgttcttgca aagatgtgag cagaatagtt 120
aaaaataata ttttatgtt tcatgttctt aaatggaagc cataaatgca gtaaatacta 180
tctgttgttt aactacttta atcgtcattt ttacatttt caagtttatt aggttaagaa 240
aaacagggca gccttggaag gcagctacta cagaaaactg cagttttgag ttaaagataa 300
agtagtattt tcagctccct gaaaaaccat tcctgctgaa actgctgtag aaattgtgaa 360
gctgcatgag tggagagtat tgaatctgtg gttatagtag ttttctcagg ttgtttatc 420
ttgatgtttg atgcactgtg ttttatagtt attaaaattg agtaatatta ttctatgca 480
gtgttatgtg tcattggcct ttgtgaatg tgcattgttt aaactgcaaa ttttaacat 540
ttgtcctct aattgttat 559

<210> 781
<211> 507
<212> DNA
<213> Homo sapiens
<400> 781
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ctgttttgat ttttttaaa aaacaaacc ttttagtcac tttaacaga attttaatg 120
ttcatgttac ataccaaatt ataatactta atggagcaat ttgtctttg ctatattctc 180
caagattatc tcttaagacc atatgcccc tgttttaag tttcttacct ctgttttta 240
ctcatttctg actggacaaa gttcttccaa acaattctga gaaacaaaaa cacacacgca 300
gaattaacaa ttctttccc tgtgcttctt atgtaagaat cctcctgtgg cctctgcttg 360
tacagaactg ggaaacaaca ctgggttagt ctcttttaag ttacaaaaag ccaattgatg 420
tttcttattc ttttaaat ttaatatatt tgttataaat actcacagga taccttatt 480
ccctagctat catctctga cttaatg 507

<210> 782
<211> 480
<212> DNA
<213> Homo sapiens
<400> 782

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 atgttaacta atgaagtcc agagatgggc ctagaaatg tgtttaaga attaacaagg 180
 agtctcaaaa agaatgaga gggatgcttc cttcccttg catctacaaa acaagagaga 240
 gactgttctg ttgaaaact cttcaaaaa ttctgatatg gtaaggctact tgagaccctt 300
 caccagaatg tcaatctttt ttctgtgta acatggaaac ttgtgtgacc attagcattg 360
 ttatcagctt gtactggctc cataactctg gtttggaag aataatttg aaattgtgc 420
 tgtgtctgt gaaataaacc tccccaaat aattagtaac tgggtgtct acttggtaat 480

<210> 783

<211> 341

<212> DNA

<213> Homo sapiens

<400> 783

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 ccccgccctt cggggttcc agggcttga gctgatctt ttgaaagtt tattctatta 120
 aattttgct atactctctg gtttctgaa aaagcttag aatggttct atacccttg 180
 taccactgca ttttccata tcattccgg ttcgatcgc tccagatgga aaacggaagc 240
 agaggcttct aatcgtcga ttactggct ccagtgaac acatccatc gaaaacactc 300
 ggaagtctgg tgctggaga ggggtccatt gtctctgta c 341

<210> 784

<211> 490

<212> DNA

<213> Homo sapiens

<400> 784

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 aaaaaaagag gttaagttt gttgtggcca atgtcgaaac ctacaagatt tcctaaaat 120
 ctctaataga ggcaactt gtttcaatt gacaaatgat gccctctgac tagtagatt 180
 ctatgatcct ttttgcatt ttatgaata tcattgatt tataattggt gctattgaa 240
 gaaaaaatg tacatttatt catagataga taagtatcag gtctgacccc agtggaaaac 300
 aaagccaaac aaaactgaac cacaaaaaa aaggctgtg ttacacaaa ccaaactgt 360
 tcatttagat aattgaaaa agttccatag aaaaggcgtg cagtactaag ggaacaatcc 420
 atgtgattaa tgtttcatt atgttcatgt aagaagcccc ttatttttag ccataattt 480
 gcatactgaa 490

<210> 785

<211> 398

<212> DNA

<213> Homo sapiens

<400> 785

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 ggctggggac aagttcactt aaaaaggcaa tgttatttaa caggcacca gtaagactt 120
 ctgctttgta gatacatgca gaagccatca aacaaggggg agctttaac tgcaacaata 180
 agctaaagta tgtaaaatac tacattctat tcagcttgg agtgtttgt agaaagtat 240
 cttcagccaa atctttgctg aagactggtt gtggagtgtt ggtaaatgct ttgtgtttt 300
 atgtaaaata ttttctaac aaaaatggtt aaaagtacat gtcctctgta gtaactgat 360
 atctatatat atgaatcatt caagcctaaa gtctagta 398

<210> 786

<211> 528
 <212> DNA
 <213> Homo sapiens

<220>

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<222> (106)..(106)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (185)..(185)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (189)..(190)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (196)..(196)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (245)..(245)

<223> n is a, c, g, or t

<220>

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<222> (284)..(284)

<223> n is a, c, g, or t

<400> 786

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 actggaattt aattgccatc gtctttgatt ttgtgacatt tctgcttgga agtgtgaact 180
 accncccnnn ccccnngctt cctgctcctt agcatgcgtg cagctctctc ctgttttggg 240
 tgttnccctt ggacactcca gctcggggac tgctggcgtg tgantgtgca gattcccctg 300
 tgtggtcgaa cctaagaact gtggcttgga agtgaatgct catgtgacga cgactttgct 360
 ttctttctc ttagttagga ggtgattcgt agatccaac tgcctatgta atgtaaataa 420
 tgtacattta atttattgct atggtagcac attgtatttg ttaatgtaca aaacaaattc 480
 taaaagggtg acaaattgat attttgttgc taaatgtgt ctttgcag 528

<210> 787

<211> 543

<212> DNA

<213> Homo sapiens

<400> 787

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 attgtattga atagtttaca tagtttattc tagtctttga aaattactga acatggacaa 120
 tgtgcagtgc attgacatct gccttagaac ttctggggaca atcctgattc gagagattct 180
 atcccattat ttacatatac caaaaatact ttgttaattt aatgtgttgg ctcccaact 240
 cctgaacacg acacaatttt attattagat ttgtatggt gattttagtc tatgaaaaca 300
 tgcattat atgtatatag atacattttt attgtttaca aatgtttgag cagctcacta 360

gcccaccct cctctatttt gggtaagaga attactacc tttttaact atgtagtga 420
gagcaacatg tattttgta ttttagaat ggtcagtata ttgctataaa attttaaag 480
agactatgaa agttaaagta ttctgattct ggtaaatta acgaatatgg ttccaggccc 540
tgt 543

<210> 788

<211> 444

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (33)..(34)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (36)..(47)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (49)..(49)

<223> n is a, c, g, or t

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<221> miscfeature

<222> (51)..(53)

<223> n is a, c, g, or t

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<223> n is a, c, g, or t

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<222> (58)..(58)

<223> n is a, c, g, or t

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<221> miscfeature

<222> (60)..(61)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (63)..(63)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (66)..(74)

<223> n is a, c, g, or t

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<222> (76)..(80)

<223> n is a, c, g, or t

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<223> n is a, c, g, or t
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<223> n is a, c, g, or t
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ncnagnnnnn nnnnnnnnn ccaanatact acaaaacca gagtaatcaa gacaattatt 120
gaagagggtg cgcccgcagg tagagttctt tcatttatgg ttgaatcaga aaccaagaaa 180
cactactatt aaactgcac aagagganag agtctccctt cacacagacc attattaca 240
gatgcatgga aaacaagtc tccaagaaaa cacttctgtc ttgatggtct atggaaatag 300
acctgaaaa taagggtgtc acaagggtgt ttgtggttc tgtatttctt ctttactt 360
taccagaaag tgttcttaa tggaagaaa aacaacttc tgttctcatt tactaatgaa 420
ttcaataaa ctttcttact gatg 444

<210> 789
<211> 548
<212> DNA
<213> Homo sapiens
<400> 789
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aattgaagga ctggatagaa aacctaag tagaccgcct tcaaagagaa attcagtata 120
ttttccaaa tgcaagccgt caggaaagt tttctctat ttggcttat aaaattccta 180
aggaagatgt tcagtcctt tcacaatctttttaagct ggaagaagct aaacatgctt 240
ttgccattga agaatatagc ttttcaag caacattgga acaggtttt gtagaactca 300
ctaaagaaca agaggaggaa gataatagtt gtggaacttt aaacagcaca ctttggtggg 360
aacgaacaca agaagataga gtagtatttt gaattgtat tttcgggtct gcttactggg 420
acttttct ttttactta attttaactt tggtttaaaa agtttttat tggaatggta 480
actggagaac caagaacga ctgaaattt ttctaagctc ctaattgaa atgctgtggt 540
tgtgtgtt 548

<210> 790
<211> 196
<212> DNA
<213> Homo sapiens
<400> 790
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catggactct actgttcagc ttaatttat aaacataac acacatttaa tgtatacag 120
tattacata tagtggaaca tagggataac tcagtttat gtaaatttt gtaagtgtt 180
gtagcctgcc cagagt 196

<210> 791
<211> 542
<212> DNA
<213> Homo sapiens

<220>

<221> misc_feature

<222> (208)..(208)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (461)..(461)

<223> n is a, c, g, or t

<400> 791

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agctagaatt aattgcccac tctcccaccc taccagtgcg gcccggaag ggcaggaatt   60
gggaggccta ggggtgggcat gaaagcttgg gaagcactgt cgtctctcag acaggcgtcc   120
taaagacctc taggctggaa gcttgggctt gcaagtggat ccgggaccga ggggtgtctc   180
ttggacaacc ccaggaactt ggaccaangc agagccaatc ttgcaaaactg gccatggatg   240
gggaagtgcc cggtagccag catgagccac actaggaaag aggaggaggg tgcagccaaa   300
cttaaggcac cggcaagtgt tgcagcact ggaggagacc ccgccagtgg ggtgaggcca   360
gccaagtccc tgtgttacga atggtgggcc aaggggctgt ctgctcggtc ccagtaggac   420
aggcagagct ccaggctggc accatggtag gcctccaggg naagagctgg gaggcaggaa   480
tggcacactg ggcaggcttg cccattcctg gccctgagaa tggagctgta gcctcatgga   540
ca                                     542

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<210> 792

<211> 522

<212> DNA

<213> Homo sapiens

<400> 792

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tgcgtcaaaa tccttaatag ctacaggagc tactgaggga aatcagtgtc attatttaa   60
gtcacgcctt gtgtttttac tactttatc agcaggatta aacctgaata acttttggt   120
gttgtgctaa tagtgtaaat aaaataagcc tgccttcata aaacactaac tttaaaagg   180
aataaacgac ttctaaaatt atgcctatta acatgtgtaa ttagtcggca gctcaaatgt   240
ttgggagtgc aagaaattag gcaccccagg atataggta tacagggata tataaaagcc   300
atgctcatta caaaatgagc agttgatgtt ttatgtggca ttaagacaat caagtcctca   360
caactctgga atgtcttctt atactgatgc tgaatttatg aatccaaatt aattccaac   420
aggttggaat cagatttaat gtgagatcat gatagacaag accacagagg acgtatgctc   480
tatttctgt tggccaacag cttctttcta atgttctgtg aa                       522

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<210> 793

<211> 450

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (34)..(34)

<223> n is a, c, g, or t

<400> 793

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acagcactta taatgatgtc actacatata gaagctcaaa gtaagggat ttgctgaaga   120
ctgtaaagt aatggaagaa ttgagacaaa aatccagtgt agctggccac ttatccaggg   180
ctttttctac ttcatacaaa ggaatgtttt gaaagtgtct gctttttta tccttaaaat   240
tcacctgtca gggaggcatt aaaaatttgg aaatgtatgc cagcaaaatg tgagctctgt   300
atttttggc attcttatgt ttgggtttaa taagattaag aaaatgatac tgggaatttt   360

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cttttcctg aaactttgaa tcaccctagt aagtc aaagt actaaaaaat gtactagatc 420
attaagactt atgtgctctt actgattgaa 450

<210> 794

<211> 544

<212> DNA

<213> Homo sapiens

<400> 794

cacaggcagg tgactactcc atgcgcgtgg acctgcgggc tggggacgag gctgtgttcg 60
cccagtagca ctcttccac gtagactcgg ctgcggagta ctaccgcctc cacttgagg 120
gctaccacgg caccgcaggg gactccatga gctaccacag cggcagtgct ttcttgccc 180
gtgatcgga ccccaacagc ttgctcatct cctgcgctgt ctctaccga ggggcctggt 240
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agggagtgag ctggtaccac tggaagggtc tcgagttctc ggtgcccttc acggaaatga 360
agctgagacc aagaaacttt cgctcccag cggggggagg ctgagctgct gccacctct 420
ctgcacccc agtatgactg ccgagcactg aggggtcgcc ccgagagaag agccagggtc 480
cttcaccacc cagccgctgg aggaagcctt ctctgccagc gatctcgag cactgtgttt 540
acag 544

<210> 795

<211> 558

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (158)..(158)

<223> n is a, c, g, or t

<400> 795

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agcagccatg agtgatcttc ctttgaaga gaatgaaaga ccctgtgaca ttctacttca 120
aaaataagcc ctgtagctct ttacggtcgc atagtatnaa attataccct gcatgctgac 180
cctcgcttgg aatggaatgc cagaaatgca tggcagcagc taataagtaa agctgattaa 240
ctatttattt gtcaatgtta ttatttaatg agctttcaca tgtgatttgt ttcaaaactt 300
taatttttta atgttttgaa actttttcat ggacctaaat atttctctat atgatttgtg 360
gttgattaga aatatgaaat acatgttgta gatatgtaaa atgaatattt tagtctcctt 420
attacatata tgttcattgt gaactttatc aatagtatgg atctttttaa atcaataaga 480
tgctttgtaa agttgaaata agtaatactt tctgttttaa tctgtgcaat cagaagggtg 540
cttgaccttc aattcaat 558

<210> 796

<211> 431

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (178)..(178)

<223> n is a, c, g, or t

<400> 796

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ataatttttg aaaagagaag caaacaatgg tgtctctttt atgttcagct tataatgaaa 120
tctgtttgtt gacttattag gactttgaat tatttcttta ttaacctctt gagttttngt 180
atgtattatt attaaagaaa aatgcaatca ggattttaaa catgtaaata caaatTTTgt 240
ataacttttg atgacttcag tgaattttc aggtagtctg agtaatagat tgttttgcca 300
cttagaatag catttgccac ttagtatttt aaaaaataat tgttgagta ttattgtca 360
gttttgcca ctgttatct aatacaaaat tataaagcct tcagagggtt tggaccacat 420
ctctttggaa a 431

<210> 797
<211> 358
<212> DNA
<213> Homo sapiens
<400> 797

agagcgacgg ctgcaacagt gcctttttgt ctgttccctt gaccaatctt actgagaatg 60
gcctgatgtg cccgcctgc actgcgagct tcagggacaa atgcatgggg cccatgacc 120
actgtactgg aaaggaaaac cactgcgtct cttatctgg acacgtgcag gctggtatt 180
tcaaacccag atttgctatg cggggctgtg ctacagagag tatgtgctt accaagcctg 240
gtgctgaagt acccacaggc accaatgtcc tcttctcca tcatatagag tgcactcact 300
ccccctgaaa agctatctga acagaggaag ataatgtagt gtgaagtccc cattgtc 358

<210> 798
<211> 475
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (61)..(62)
<223> n is a, c, g, or t
<220>
<221> misc_feature
<222> (64)..(76)
<223> n is a, c, g, or t
<220>
<221> misc_feature
<222> (78)..(81)
<223> n is a, c, g, or t
<400> 798

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rmgnnrinnnn nnnnrincnnn nttgtaaaat acggatcatt tgtattttgg ggtgataaaa 120
tagttcacca tgggtatgag atatttattc tttaaatcaa agtaaattag aatttttaa 180
aagcacaaaa ctgcaggaca gtttatgaaa taggtggcac tattagggaa tcttcttta 240
aagcaagaaa tcatgttatt tagaaagaaa aactaatctt aaacatacta ttctaataa 300
atatttatat ttttatgaaa taaaggagta tgtggaaatt aatatttggg gatgttgac 360
agtggaaaag tatctagagt tttacctgc cttatctgaa ttctcttga aactgagct 420
taaactctaa tagctgtttc ctttctatt ctgaacaact gtctccattt tcaa 475

<210> 799
<211> 519

<212> DNA

<213> Homo sapiens

<400> 799

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gaacagtct atgccaccag agaccactat ttaccaact cctcctgtc atttttgag   60
atgatcttgg atcttcgctg gacttatgtt ctttctaca gccaaggga ggttaaagtg  120
gtggccaaag gattttgtag tgccaatggg atcacagtct cagcagacca gaagtatgtc  180
tatgtagctg atgtagcagc taagaacatt cacataatgg aaaaacatga taactgggat  240
ttaactcaac tgaaggtgat acagtgggc acctagtgg ataacctgac tgtcgatcct  300
gccacaggag acattttggc aggatgcat cctaactcta tgaagctact gaactataac  360
cctgaggacc ctccaggatc agaagtactt cgcattcaga atgtttgtc tgagaagccc  420
aggggtgagca ccggttatgc caacaatggc tctgtgcttc agggcacctc tgtggcttct  480
gtgtaccatg ggaaaattct cataggcacc gtatttcac   519
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<210> 800

<211> 466

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (411)..(411)

<223> n is a, c, g, or t

<400> 800

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ctccagcgac ccaatggcgt gtaactcgcc gcagtctcca gcggtgtggg agccccaggg   60
ctcgtcccg cgcctcagcc accaccctca tgcccaccct ccgacctca accagtcccc  120
agcgtccagc tacctggaga actctgcatc ctggtacaca agtgcagcca gctcaatcaa  180
ttccacctg ccgccgccgg gctccttaca gcaccgctg gcgctggcct ccgggacact  240
ctattagatg ggctgctctc tctactctc tttttggga ctactgtgtt ttgctgttct   300
agaaaatcat aaagaaagga atcatatgg ggaagttcgg aaaactgaaa aagattcatg  360
tgtaaagctt tttttgcat gtaagtatt gcattcaaa agaccccccc nttttttac   420
agaggacttt ttttgcgcaa ctgtggacac ttcaatggt gccttg   466
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<210> 801

<211> 549

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (148)..(149)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (189)..(189)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (191)..(194)

<223> n is a, c, g, or t

<220>

<221> misc_feature
 <222> (339)..(339)
 <223> n is a, c, g, or t
 <220>
 <221> misc_feature
 <222> (399)..(399)
 <223> n is a, c, g, or t
 <400> 801
 gaggcctcac tctaagttat taccgtcccc ttcatgttt tcaaagacat gtggtgatat 60
 agtttttaaa aataactatt ttgtataga tcataatatg cataaaactg tacagaaata 120
 ttttgaatg tgttgatgtt aaaaaaanna tctgtaaata aagttttaa aaaagaattc 180
 aaatggcana nnnngaaata tgtagatatt ttgctattta tttaaaggag tattttaaga 240
 gatattgaac tatctgaaat tgaccagtaa tcaaagttcc aatcatctga atgcttttcc 300
 ttgaggtaga atgtgagtct cagaaatgac tgcattacnt gcccttttt gcacctttc 360
 tgtcttttta tttgcagaa caacaacaac acaaaaatng tgccttagct gtatttttt 420
 gtctagggga gttgtttct gtctgacaaa gcaacattt ttgcagaaaa cagtggatgt 480
 attaaatact gtatcatacc aaaaacactg caggtgtata tagatgctt ctgtcatact 540
 gtgttttca 549

<210> 802
 <211> 515
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (101)..(101)
 <223> n is a, c, g, or t
 <220>
 <221> misc_feature
 <222> (106)..(108)
 <223> n is a, c, g, or t
 <220>
 <221> misc_feature
 <222> (125)..(126)
 <223> n is a, c, g, or t
 <220>
 <221> misc_feature
 <222> (222)..(222)
 <223> n is a, c, g, or t
 <220>
 <221> misc_feature
 <222> (225)..(228)
 <223> n is a, c, g, or t
 <400> 802
 actgtgagtt ccactgaata cattttaatg tctgtaggaa gaatcaaaac acctatttaa 60
 agatggcaat atataataat cattttaaaa gtatttgatt naaccnnnta attttcaga 120
 aatgnnaaaa aaaaaaatca gctctaaaac caaagctgat ttcagaaaaa ttgaaaatgt 180
 aaatcagccc tatccataat atagtttctc taaaacttta tntnrmnag tcattttaaa 240
 ataataaac tatttaaaaa tgtaactgct atcttaatgt tctgaaataa tttaaaacat 300

tttaaaatat gaatactgta gtataaaaga aagaaatggt gggaacgaaa agcagagaaa 360
gaaatgcaa ttccagtcca aagttttatt tgccaagttt tcttagaatg aattttacca 420
gtttatgaat tattgtaaac agaatgtgtc atggaaatac tgaaagattt ttcctagag 480
tggccttatt gactgctggt gtgatgccac tgtaa 515

<210> 803

<211> 197

<212> DNA

<213> Homo sapiens

<400> 803

tcagctttac cctctgaact tctgatcgaa ggcatccct ctccagcttg agtggatcaa 60
agatgacaag ggccaatgga accaagtttg agtcttgcca ggtcaatact tgggtcctga 120
gtatgggtac tagtatctgt ttgttatgt gtgtattatt ccagccagaa tgggaaatgc 180
taattcagct cctccag 197

<210> 804

<211> 483

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (48)..(48)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (212)..(212)

<223> n is a, c, g, or t

<400> 804

ggaattcttg ttcaatactg gcaggagtga aaattggtag aacctttnta gaaggcaatt 60
tggcaacatg tatgaaaacc taaatgttga tacaccttta cccagcagtt tgtttaggaa 120
tttatcctaa tgaataaaag ttgtccaagt ctcaaacat gagcccaaag gtatatttca 180
tgatgtttat gatattaaaa cattggaaac anctgaaaca tccttcagta aaagatggat 240
taaataaatt ccatgcagtt gtcattttaa aatatttaga tatatgttta ttgctatgga 300
tatatgttcc caaaatatta ttgaatcaaa aagtagacta caggatatat gttgaatatg 360
agctcattta taacattgaa tattttaaga taatgtatgt ttcatagaga gatcttcacc 420
aaatgttaag gattttttt tctgggctgt ggtatttggg tgatctttac attcttcaga 480
etc 483

<210> 805

<211> 508

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (224)..(224)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (260)..(261)

<223> n is a, c, g, or t

<400> 805

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ggttacctcc cacagaacgt ggtggactcc ttctccccc gcagcatgac ccggtttat   60
gccaaccttc agaaagcagt gaagcaattc catgagtaat gctatcgta ttcttgga   120
aagaactccc gtgactcadc gaggagctcc agctgttggg acaccaagga gcctgggagc   180
acgcagaggc ctgtgttcac tctttggaac aagctgatgg actnccgcatc tctgagaatg   240
ccaaccagag gcggcagccn ncccttctg cctcctgccc cactcagggt tggcgtgtga   300
tgagccattc atgtgttcca aactccatct gcctgttacc caaacacgcc tctcctggca   360
gggtagaccc aggcctctaa ccatctgaca gagactcggc ctggacacca tgcgatgcac   420
tctggcacca aggtttatg tgcccatcac ttcagagac cacgttccc tgactgtcat   480
agagaatcat catcgccact gaaaacca                               508
```

<210> 806

<211> 494

<212> DNA

<213> Homo sapiens

<400> 806

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ccctggatgc gcaagctgca cataagtcac gacaacatag gcggcccgga aggcaaaagg   60
gcccggacgg cctacacgag ctaccagacc ctggagctgg agaaggagtt ccactcaac   120
cgttacctga cccgcagaag gaggattgaa atagcacatg ctctttgcct ctccgagaga   180
caaattaaaa tctggttcca aaaccggaga atgaagtgga aaaaagataa taagctgaaa   240
agcatgagca tggccgaggc aggagggggc ttccgtccct gagtatctga gcgtttaaag   300
tactgagcag tattagcgga tcccgcgtag tgcagtact aaggtgactt tctgaaactc   360
ccttgtgttc cttctgtgaa gaagccctgt tctcgttgcc ctaattcadc tttaaatcat   420
gagcctgttt attgccatta tagcgctgtg ataagtagat ctgcttctg ttcattctt   480
tgtctgaat ggct                               494
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<210> 807

<211> 533

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (26)..(26)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (42)..(42)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (48)..(48)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (75)..(75)

<223> n is a, c, g, or t

<220>

<221> misc_feature
<222> (83)..(83)
<223> n is a, c, g, or t
<220>
<221> misc_feature
<222> (121)..(121)
<223> n is a, c, g, or t
<400> 807

aagtggggca aggatggacc agcagnaagg ggggtaaggc tncgttnca cttccccctg 60
cctccacaga acgangccac ggnattccgt tatcttctc cagttttgtt ctttctccag 120
ncctcagttc caccaggtgt caggactgca tggggggcctg gggcaggcag aggagtcagg 180
ccagggtccc tgacggagca gcactcagca tgtgagttag gccacagaaa aactctgccc 240
cactgtctct tacctcacgg ggggtggctt cagggattct ttagcgcagc agattaaaat 300
cttgccacag tcgagaaatt gacaacaagc ttccatgctg tacatgggtc tcttttctc 360
tcttttattt ttaaaaagaa aaccagaaa gatgtaccag atttgttaa atgagggtat 420
gccagaaggt ggccagtttt gcttatgat cttatgaagg aagatttgt accctacgta 480
tatatataca cacacataca tatatatata tatcccgaa caacaacggg act 533

<210> 808
<211> 358
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (146)..(146)
<223> n is a, c, g, or t
<220>
<221> misc_feature
<222> (180)..(181)
<223> n is a, c, g, or t
<400> 808

gaaactgtat gggtagcttt ttgtttgtt tttgtttt ttttgttt tgttttgtt 60
tttagttgta ggtgcgacgc gggaaattt ttgcgactgt acacatagct gcagcattaa 120
aaacttaaaa aaattgttaa aaaaanaaaa aaagggaataa catttcaaaa aaaaaaaaaan 180
ngataaacag ttacaccttg tttcaatgt gtggctgagt gcctcgattt ttcatgttt 240
ttgggtgatt tctgatttgt agaagtgcc aaacaggttg tgtgctggag ttcctcaag 300
acaaaaacaa acccagcttg gtcaaggcca ttacctgtt cccatctgta gttattcg 358

<210> 809
<211> 424
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (263)..(263)
<223> n is a, c, g, or t
<400> 809

agaacctgtc gtaccagcat catgagctgg atgcaggagc ccatggctga aaggagttaa 60

aacgcccagt ggtcattaag tgaacatct ttatcaacc tgcaaaagct gcagcgttct 120
ctgccaggtc aaatgggcat gtttagaaaa taagagaaga tggctgagta tagctaata 180
ataaatggtt gtttcttag aaaattaaac acacacagag tgtaagagga gaggatacgg 240
ccctccctga aggataaagt cncctggac ggtgccctgc cctcgttct cacattaact 300
gccaggaat gtcattgctga ttggtcccg gaagggtgtt tggcaagggg cagtgtatgg 360
agctacgtgt agaaggagag aaattgtgt gtggctttg taaatttga ccgattgcag 420
caat 424

<210> 810
<211> 478
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (333)..(333)
<223> n is a, c, g, or t
<220>
<221> misc_feature
<222> (360)..(360)
<223> n is a, c, g, or t
<400> 810

tagagactcc cctctaaata atttactct acattgtaaa tacattgatg ccaacaaaat 60
tccaactgct actaacaag gtttggttg tgataagcta ataacagcta ctttgttag 120
gaggtaaata tgtgtactgg agggggtaaa aatccattta ggttatggca aagatgggaa 180
tcaaactgta aaactcatag ccccataaaa ttaatttct ttgtaagt ccagagggtt 240
taagagaact tcttgcttag agtttattga taataataat gcttcagaat atccattta 300
aatgtacagt gtaaataatgt aaaatattt acntcccag gcaagttgt ggctgtatn 360
ccacttagtg gctcttttg actggcagtt ctgtatatct gaaacaaata agctgtaagc 420
acttttgta aaactttgtc aaataatcct ttatgtact tgtctcaga cctgttct 478

<210> 811
<211> 529
<212> DNA
<213> Homo sapiens
<400> 811

ggggcttctg ctgtcaaagc aatgataag ttactcagg ccattattga ctgctgaact 60
ctcttcctc ccaactctc ctgaaagag aaaaaatac ttgccttct tgcctcctt 120
atcaaatgtt ttgtacaaa tagtgtaagc ctgttaagc aaaccaatta aaataggcac 180
tgatttttt gatctgtttg taacaaatga atgtaagtac tattacatg gtgtgcctag 240
gaggagctga aatcattggc actttaatcc atattgtaaa gatcagtatc aaaagcatag 300
tgttcttcac ctctcctct cagcatccat ctctatatac tgattaaat ggaaaagtct 360
ctttatcac ctctatgtaa agttttatgg gtagttatcg tcagtgtatt taaatatatc 420
ttctagtatg tttaaaggc ttgtcttcaa tactgtggag aaaaaaata aaagagcgta 480
tgaaaagtac gttagacttt tgctggcatt caagtcattg ctagtctgt 529

<210> 812
<211> 554
<212> DNA
<213> Homo sapiens

<400> 812

aatagctaca gactggaagc cagccaaatc tccattgata gggaattgat ggaaggaact 60
agggtatatc tatacaatgg gatactacac agctgtagaa aggactgcga actattttg 120
tagttctggc ctggagaaat ctccagaata taggaaatga aaaatgtaaa gcacagaaga 180
gaatgtatgg tgtgctgtct gttgtataac gaagagacaa atggaaaaaa tatgtatttg 240
cttttttgt aaagcaatag aagaattagt tataccaata actaataaaa tgatctcctt 300
gttagtggtg gtagggagct agacaaggat ggcaactatt tctgtatctt acataccttt 360
tattttgagg cctgtcaat gttttatata ataaacattt ttgaaaagg caactcttaa 420
aactaaaaca aacttaacag tctgtcaagt tggatgata accccacaga agacttactt 480
caagtgactt gaaaacttag tattttgtct gtactttgct aatggaatat atcctacaga 540
ccaaacaacc acaa 554

<210> 813

<211> 533

<212> DNA

<213> Homo sapiens

<400> 813

ctggcctttg gtgaccactg agaaggacac ttacggggcc cagagctcct ggtactgccc 60
ttcctttgag ggccgtggag ggctgtggac agcccagcaa cctgtcgtc ttggaggctg 120
gtgtggcctt gaggagggaa gcctcgcag gccgctggaa gagaggcgcc tctggcctg 180
gctctgcaga acccaggggc acgctctggg cctgggctga ggaagtcccg ctctccccgc 240
ggctctgagt tggactgagg acagggtgg gcgccagtgt gggcgcaggc gcagggtcag 300
gcacagggcc actgtcctcc aggcaggctt ttgggtgcta ggccGtggga ctggaagtgc 360
cccagcccg atttatgtaa aggtatttat gggccactgc acatgcccgc tgcagccctg 420
ggatcagctg gaagctgcct gtcctctcct gcccaatccc cagaaaccct gattcaggtc 480
tgcaggctcc tgcgggctca ccaggctgct ggctccggta ccatgtaaac eta 533

<210> 814

<211> 493

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (76)..(76)

<223> n is a, c, g, or t

<400> 814

agttttgctt ttgactccag gaacaaaaag gtaaatccca catcccagtt tctcagaagt 60
ccctgtttat tccaantgcc atcagatgtg tgcaatgtgg caaactgaag ctgcacagtg 120
ttggtttctt tgtattctga ggatgttaaa gaetttgta aatggttatc caattgctct 180
ttcacaggta gcctattaaa ctattttaat atgtttttt aaaceteata aaaatctagc 240
acactcttct cttagagcagt tageagacet aaagcaagcc tgaattggct atgcagtaca 300
ttgtattctg ttgggggaa ttgttttag ccattttctt taattaccag tttccagaa 360
cactcttagc tatgttgaca tgaggcagtt ccttcaggt gattctgtt ccttaagtat 420
tatataaact gtccaatac agacaaagca taatcaatat aatctgaatt attgttatct 480
ttacctctg agt 493

<210> 815

<211> 295

<212> DNA

<213> Homo sapiens

<400> 815

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gtattgggtc ccagttgggt acattttaa atcctgattt tggagactta aaaccaggtt   60
aatggctaag aatgggtaac atgactcttg ttggattgtt atttttgtt tgcaatgggg   120
aattataag aagcatcaag tctcttctt accaaagtct tgttaggtgg ttatagttc   180
tttggctaa caaatcattt tggaaataaa gattttttac tacaaaaatg aaatttgttt  240
ggacttccac ttgagacagt aaagagagta ttagacaccc agtaaaaact gccat    295
```

<210> 816

<211> 422

<212> DNA

<213> Homo sapiens

<400> 816

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atggctctgg aaaaccagct gctacttcca aatctattgt ccataatggt ttctttctga   60
ggttgcttct tggcctcaga ggaccccagg ggatgtttgg aaatagcctc tctacccttc  120
tggagcatgg ttacaaaag ccagctgact tctggaattg tctatggagg acagtttggg   180
ttaggtttac tgatgtctca actgaatagc ttgtgtttta taagctgctg ttggctatta  240
tgctggggga gtctttttt ttatattgt attttgtat gccttttgca aagtgggtgtt   300
aactgtttt gtacaaggaa aaaaactctt ggggcaattt cctgttgcaa gggctctgatt  360
tatttgaaa ggcaagtcca cctgaaattt tgtattagt tgtgattact gattgcctga   420
tt                                     422
```

<210> 817

<211> 352

<212> DNA

<213> Homo sapiens

<400> 817

```
gtcacacttt atggtctctg gacccttaa tgtctgattc atgtagcaga agccagctag   60
atttcatct gtctctattc atttgttgt gatgtcatgg atcatgtggc ctctggaaaa   120
ctctactgta tactcgagaa tgagaatata acaggcaaaa taacattatc atgaaaatag   180
tttgacctc atgaaccca tgaaaggctc ccagaccaa aatttagaa tctctggtat   240
agggtaacac ttattgtgt aaattcagtt ctctgtaccc cacttaaata tgtattatta   300
tctctgaca ttatttccc aaaaaatgct gtttgatttc ttactgttc tg            352
```

<210> 818

<211> 335

<212> DNA

<213> Homo sapiens

<400> 818

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acaaggccca ggctggggcc agggccagag gggaaggccc tggattctca ctcatgtgag   60
atcttgaatc tctttcttg ttctgttgt ttagttagta tcatctgta aaatagttaa   120
aaaacaacaa aaaactctgt atctgtttct agcatgtgct gcatgactc tattaatcac   180
atttcaaatt caccctacat tctctctc ttcactagcc tctctgaagg tgcctggcc   240
agccctggag aagcactggg gtctgcagca cccctcagtt cctgtgcctc agcccacagg   300
ccactgtgat aatggctgtg ttagcacttc tgtat                                335
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<210> 819

<211> 261

<212> DNA

<213> Homo sapiens

<400> 819

gaatgaagaa aagtcgcctc aacgacaaac aaaagcaccg actagatttc cttcagctga 60
tgattgactc ccagaattcg aaagaaactg agtcccacaa agctctgtct gatctggagc 120
tcgcagccca gtcaataatc ttcatTTTTg ctggctatga aaccaccagc agtgttcttt 180
ccttcacttt atatgaactg gccactcacc ctgatgtcca gcagaaactg caaaaggaga 240
ttgatgcagt ttgccaat a 261

<210> 820

<211> 245

<212> DNA

<213> Homo sapiens

<400> 820

ggtgagggga tgacccttg agatgaaggg aagaggtgaa gccttagcaa aaatgcctcc 60
tcaccactcc ccaggagaat ttataaaa agcataatca ctgattcctt cactgacata 120
atgtaggaag cctctgagga gaaaaacaaa gggagaaaca tagagaacgg ttgctactgg 180
cagaagcata agatcttTgt acaatattgc tggccctggt tcacctgttt actgttatca 240
caata 245

<210> 821

<211> 273

<212> DNA

<213> Homo sapiens

<400> 821

acttaggtaa ttgtaggcg aggattataa atgaaatttg caaatcact tagcagcaac 60
tgaagacaat tatcaaccac gtggagaaaa tcaaaccgag cagggtgtg tgaaacatgg 120
ttgtaatatg cgactgcgaa cactgaactc tacgccactc cacaaatgat gtttcaggt 180
gtcatggact gttgccacca tgtattcatc cagagttctt aaagttaaa gttgcacatg 240
attgtataag catgctttct ttgagttta aat 273

<210> 822

<211> 492

<212> DNA

<213> Homo sapiens

<400> 822

ttgtcaaggg gctttgcatt caaactgctt ttccagggt atactcagaa gaaagataaa 60
agtgtgatct aagaaaaagt gatggttta ggaaagtgaa aatatTTTg ttttTgatt 120
tgaagaagaa tgatgcattt tgacaagaaa tcatatatgt atggatatat ttaataagt 180
atttgagtac agactttgag gtttcatcaa tataaataaa agagcagaaa aatatgtctt 240
ggttttcatt tgcttacc aaacaaca acaaaaaaag ttgtccttg agaacttcac 300
ctgtctctat gtgggtacct gagtcaaaat tgtcattttt gttctgtgaa aaataaattt 360
ccttttTgta ccatTTctgt ttagttttac taaaatctgt aaatactgta ttttctgtt 420
tattccaaat ttgatgaaac tgacaatcca atttgaaagt ttgtgtcgac gtctgtctag 480
cttaaatgaa tg 492

<210> 823

<211> 519

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature
 <222> (118)..(118)
 <223> n is a, c, g, or t
 <220>
 <221> misc_feature
 <222> (125)..(125)
 <223> n is a, c, g, or t
 <220>
 <221> misc_feature
 <222> (133)..(133)
 <223> n is a, c, g, or t
 <220>
 <221> misc_feature
 <222> (136)..(136)
 <223> n is a, c, g, or t
 <400> 823
 gagtatacat cgggtgcaggc ttctggatg acagtgggt gatatgtgtc atgtggccta 60
 aaagcctcca tgcatttga cctacgaatt ctatcttgg gaatttatcc taagaaanta 120
 cttanggatt tanttngtga taagatgttc atcccagcat tgcaatggag aaaaatggga 180
 agcaatgggt tgggtgggaa ttatttcctt ttctgctgta acgaaagttt gcaatagggg 240
 attgcttaag taaattattg tatctccatc cagatgggtg agtaccgcgc agacattaaa 300
 agtcatgtaa aagaacatct gactgaaaga aaaatgctcc ttgaatatta aaaggttgta 360
 aaaatagtgc atgttatgtg atttcaattt tgttttttaa aatatgggtg tatgcttgta 420
 tacgtagagc agataaaaaa gacggaaggc atactaaaaa atgttgagtg gttatctttg 480
 tatgggtggaa caaagtcact gtaattttca tctttggtt 519

<210> 824
 <211> 375
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (310)..(310)
 <223> n is a, c, g, or t
 <220>
 <221> misc_feature
 <222> (312)..(312)
 <223> n is a, c, g, or t
 <400> 824
 tccttgcct tcaactgtaat gcttaatggt tgtgtagtct tatacgtgac tcctgacttc 60
 aaggatcctg gtctgtacct ctttaggtca acacgttttg agtgaactgg tgttggttat 120
 ttggaattag atataaagtc atatattctt tggtagaggaa tggcttcata taggagtcca 180
 cattcaaac aagctttgac aaaataatag agtgaaaatt ggtagatcag agttgagctg 240
 attggaggac caaattaaaa gactggctgg gcatgatggc tcacacctga aaaccagca 300
 ctttgggagn cnaaggcagg cagattgttt gagcccagga attcaagacc agcctagata 360
 acctgggtat ccag 375

<210> 825
 <211> 387

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (74)..(74)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (99)..(99)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (112)..(112)

<223> n is a, c, g, or t

<220>

<221> miscfeature

<222> (128)..(128)

<223> n is a, c, g, or t

<400> 825

gagcacatat cttacaaaac accaaaaaat tcatagtgaa gagaaatcaa atatacatac 60
tgagtgtggg gaanccatta gacaaaactc ttcttttna caacaataaa ancctcacac 120
tggagagnnt ctctgaatgc cttagaatt tggtaatat ggagaccctt cccagggaaa 180
cagaaggagg atcgtgaaaa ctgttgacta cttagaatga tcacatgggt tagtggagag 240
agcatgattc tgggttttaa aagtcattga tctcaatctc agctcctatt actaactaga 300
tcttttactt tggggtaagt cacttcatat ctttaggcct taattcctc atctgaaaaa 360
ctggaaggcc tgacttggtg agcttta 387

<210> 826

<211> 178

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (119)..(119)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (124)..(124)

<223> n is a, c, g, or t

<400> 826

tatgactgct aaaagaacca acccaggaca gagccacaat cttcctctat ttcattgtaa 60
tttatatatt tcacttgat tcattgtaa aactttgat tagtgtaaca tactcccccnc 120
agtn tacttt tacaacgcc tgtaaagact ggcattctca caggatgtca gtgtttaa 178

<210> 827

<211> 426

<212> DNA

<213> Homo sapiens

<400> 827

```
gagagtgggt ggggggagtg ggagagggtt gggggctggg aagacaaggg aaaagaaaat 60
gcaggatat gctatttgt ttcatttgt ctttgaaaat cgtaagtga cagcatcatt 120
ctcgggcaga gtctgggagg acttgagtg actgctacag ttatgatct tccctaaaca 180
tcgacgttcc tggaaatctt tggcctctga gctgacttct tctctgtgc ttgtgagcca 240
ggaatttaac agctctgttg tatgtgcagg ctgcagatgc ttctcttcag ctttgctat 300
ccaatgtgtg tgtgtgtgtg tgtgtgtgtg tgtgtgtgtg tgtgtgtgtg 360
ataaacttaa aaaacctgtt gttccatgc aacggccac acaacttggg actcatggtc 420
agcctc 426
```

<210> 828

<211> 400

<212> DNA

<213> Homo sapiens

<400> 828

```
tctgttccaa aatgtacgga cccacttac aatgaaattg tagtatatga tgaagtcaca 60
gagctccaag gacatgtctt aatgcttatt gtgaagagta aaactgtatt tgtgggagca 120
attaacatcc gactctgtag tgtccactc gataaagaaa aatggtatcc attaggaaac 180
agtataattt gaccattgct atgaacatat gcattattca ttaactactt gtatttttt 240
cacttccggg cctctgaatc acataagtaa ggcacttttg ttgtcaaaga cagcacaggg 300
tattaaggac acagaaaaaa aatcagaatt agtcttttgt gttgtttatt ttctacctgt 360
gctttcattg tttttcata atcttttctc cticagtga 400
```

<210> 829

<211> 520

<212> DNA

<213> Homo sapiens

<400> 829

```
taaagccttt aactggctct caactcttac taaacataag agaattcata ctggagagaa 60
gccctacaaa tgtgaagaat gtggcaaagc tttaaccgg tcctcaaacc ttactcgaca 120
taagaaaatt catactggag agaaaccata caaacctaaa agatgtgaca gtgcttttga 180
caacacccca aacttttcta gacataaaag aatcatatg ggtgagaaat cctagaaatg 240
tgaagaatgt gacaaagcct ttaagcgggt gtcacacttg attgtatata agataattca 300
tactggagaa aactccaga agtgtgacaa atgtgacaaa acatttaatt aatttcata 360
ccttattgca caggaaagca ttatacttg agaaaaattg tataaagaat ggaaaagtca 420
ttaatatctg ctcatatctt aacatcagcg agttgggtatt taataaaagc attatcaatg 480
aaattactgg caaaagatct ttcagaccat ataagcctgc 520
```

<210> 830

<211> 347

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (223)..(223)

<223> n is a, c, g, or t

<400> 830

```
cactgctagc agggcttcaa ccaggaaggg atcaaccag gaagggatga tcaggagagg 60
cttccctgag gacataatgt gtaagagagg tgagaagtgc tccaagcag acacaacagc 120
```

agcacagagg tctggaggcc acacaaaaag tgatgctcgc cctgggctag cctcagcaga 180
cctaaggcat ctctactccc tccagaggag ccgcccagat tcntgcagtg gagaggaggt 240
cttcagcag cagcaggctt ggagggtga gaatgaacct gactagaggt tctggagata 300
cccagaggtc cccaggtca tcacttggct cagtggaagc cctcttt 347

<210> 831
<211> 519
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (326)..(326)
<223> n is a, c, g, or t
<220>
<221> misc_feature
<222> (374)..(376)
<223> n is a, c, g, or t
<220>
<221> misc_feature
<222> (398)..(401)
<223> n is a, c, g, or t
<400> 831

gaaccacctc aatgcaaaga ttctacggga aaatgtgggc cccctccacc tattgacaat 60
ggggacatta ctctatccc gtgtcagta tatgtccag ctctacagt tgagtacaa 120
tgccagaact tgtatcaact tgagggtaac aagcgaataa catgtagaaa tggacaatgg 180
tcagaaccac caaaatgctt acatccgtgt gtaatatccc gagaaattat ggaaaattat 240
aacatagcat taaggtggac agccaaacag aagctttatt tgagaacagg tgaatcagct 300
gaatttgtgt gtaaaccggg atactngtct tcatcacgt tctcacacat tgcgaacaac 360
atgttgggat gggnnctgg agtatccaac ttgtcanrm ngatagaatc aatcataaaa 420
tgcacacctt tattcagaac tttagtatta aatcagttct taatttcatt ttaagtatt 480
gttttactcc tttttattca tacgtaaaat ttggatta 519

<210> 832
<211> 416
<212> DNA
<213> Homo sapiens
<400> 832

cagcccactc tcaagatttt gaagacattt gcctttgttt tctccagaa actttatagt 60
tttagctgtt ggatctgtga ttatcaccag ttgatttttg tgtatggtgt gaggggggga 120
tcaagattta tttgtatat ggacatccat ctactctaca catttattga aaaaaacaac 180
acctttcttt tccattgaa ttgcgtgggg actttgttaa taaatgaatg gtcatatatt 240
tgggtctgtt tctggactct gtctttcca ctggactaa ttatccattc ttgcatcagt 300
accatacttt ttaattact gtagtttatg gtaagtcttg acatggattt gtaaacctc 360
cagttttgtt cttttaaca aatgtttga ctatttaagt gctttacatt tccata 416

<210> 833
<211> 482
<212> DNA
<213> Homo sapiens

<400> 833

```
agcagatgga gcccaaaagc tttggtgaa ggccaaagca gctgagaaag cagcaaatat   60
tctattaaat ctgtacaaaa cattgaacca gttacaacaa gctcaaatca ctcaaggacg   120
ggcaactct accattacac agctgactgc caatataaca aaaataaaaa agaattgtgt   180
gcaggaattt gttgagctga aaaaacaata tgctattctc caacgtaaga caagcactac   240
aggactaaca aaggagacat taggaaaagt taaacagcta aaagatgcgg cagaaaaatt   300
ggctggagat acagaggcca agataagaag aataacagat ttagaaagga aaatccaaga   360
tttgaatcta agtagacaag caaaagctga tcaactgaga atattggaag atcaagttgt   420
tgccattaaa aatgaaattg ttgaacaaga aaaaaaatat gctagggtgt atagctaggc   480
ag
```

<210> 834

<211> 212

<212> DNA

<213> Homo sapiens

<400> 834

```
ccttatcatc cgctcacaggg gtcagaaagg acctcgaggg cctccaccag caggtcacct   60
tctgtgatcc ccattccaag gcactgggtg tgactctgct tctgcactg acccagagcc   120
tctgcctgtg cactgcaagc tgtgtctact caggcccaa ggggactctc tgtttccatt   180
ctccccccac agacctgtca agagaagcat ga                               212
```

<210> 835

<211> 264

<212> DNA

<213> Homo sapiens

<400> 835

```
ttcctaaatg gtcttctttt tccattttt cccttgtaaa ataatctgct ttaatttag   60
cgagctcttc tcatgtgttt atcatttaa tgaataagta aatgagggca gtttgcttac   120
tggttaagaa aggatgcagg ctttagggct ggaagcacct gggttcaaag cctggctctg   180
cctcttatca gctgcgtaac ctttgacaa gttgctttat tgctctaagt ttcagttcc   240
tctgtgtca actctagagg actg                               264
```

<210> 836

<211> 484

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (190)..(190)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (420)..(420)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (424)..(424)

<223> n is a, c, g, or t

<400> 836

tgggatttag tcagtcacag agatactatt actatgagta agaaattaat ggcaaaggaa 60
ttaatccaag aatagaagaa tgaagcaagt tcactttcaa tcaagaaact tcataatact 120
ttcagggaag ttatctttc ctgtcaatct gtttaaaata tgctatagta ttccattagt 180
ttgggtgtan cttattttt ttgtgtaatg atctttaaac gctatatttc agaaatatta 240
aatggaagaa atcaatatca tggagagcta actttagaaa actagctgga gtattttagg 300
agattctggg tcaagtaatg ttttatgttt tgaaaagttt aagttttaga cactcccaa 360
atttctaaat taatctttt cagaaatatt gaaggagcca aaaatataaa acagttctgn 420
atanccaaag tggctatatc aacatcaggg ctgacacatc tttctctatt atccttctat 480
tgga 484

<210> 837
<211> 383
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (319)..(319)
<223> n is a, c, g, or t
<400> 837
gacagaccaa agttaacaa gcctccggaa actcttatca ctactattga ttctagttcc 60
agttggtgga ccaactgggt gatccctgcc atctctgcag tggccgtcgc cttagtgat 120
cgcctataca tggcagagga ctgaacacct cctcagaagt cagcgcagga agagcctgct 180
ttggacacgg gagaaaagaa gccattgcta actacttcaa ctgacagaaa ccttcacttg 240
aaaacaatga tttaatatata tctctttctt tttctccga cattagaaac aaaacaaaaa 300
gaactgtcct ttctgcgcnc aaatttttcg agtgtgcctt tttattcatt tactttatt 360
tgatgtttcc ttaatgtgta att 383

<210> 838
<211> 507
<212> DNA
<213> Homo sapiens
<400> 838

gattcctgtg ggtccagctt tggaactggg aaacctttct tcggatccgc actcattcca 60
ctgatgccag ctgccctga aggatgccag tactgtggtg tgtgagtctc agcagccgcc 120
cacacgtccc taactctgct gcatggcaga tgcctaggtg gaaatagcaa aaacaaggcc 180
cgggctgggg ccaggggccag aggggaaggc cctggattct cactcatgtg agatcttgaa 240
tctctttctt tgttctgttt gtttagttag tatcatctgg taaaatagtt aaaaaacaac 300
aaaaaactct gtatctgttt ctgcatgtg ctgcattgac tctattaatc acatttcaaa 360
ttcaccttac attcctctcc tcttactag cctctctgaa ggtgtcctgg ccagccctgg 420
agaagcactg gtgtctgcag caccctcag ttctgtgcc tcagcccaca ggccactgtg 480
ataatggtct gtttagcact tctgtat 507

<210> 839
<211> 502
<212> DNA
<213> Homo sapiens
<400> 839

ctggagtctg ggggtgtgtg tcatagagat ggtgactggc aaggtttgca cagatgaaga 60
atgaagccta gtagaatatg gacttggaaa atttcttaa tcactactgt atgtaatat 120

tacataaaga ctgtgctgag aagcagtata agccttttta acctccaag actgaagact 180
gcacaggtag caagcgtcac ttctctgct gctcctgttt gtctgatgtg gcaaaaggcc 240
ctctggaggg ctggaggcca cgagggtaaa gaagctgcat gtaagtgcc attactactg 300
tacacggacc atcgctctg tctcctcgt gtctcgcgcg actgagaacc gtgacatcag 360
cgtagtgttt tgaccttct aggttcaaaa gaagttgtag tttatcagg cgtcccatac 420
cttggtttta atctcctgtt tttgagtgct actgactgtg aaacctttac ctttttggt 480
gttggtggca agctgcaggt tt 502

<210> 840

<211> 328

<212> DNA

<213> Homo sapiens

<400> 840

gatttcttt caccattcgt acataatact gaaccacttg tagatttgat tttttttt 60
aatctactgc atttagggag tattctaata agctagtga atactgaac cataaaatgt 120
ccagtaagat cactgtttag attgccata gactacactg cctgccttaa gtgaggaaat 180
caaagtgcta ttacgaagtt caagatcaa aaggcttata aaacagagta atctgttg 240
ttcaccattg agaccgtgaa gatactttgt attgcctat tagtgttata tgaacataca 300
aatgcatctt tgatgtgtt ttcttggc 328

<210> 841

<211> 546

<212> DNA

<213> Homo sapiens

<400> 841

gacacaggca ggtgactact ccacccgct ggacctgcgg gctggggacg aggtctgttt 60
cgccagtag gactcctcc acgtagactc ggctgcggag tactaccgcc tccacttga 120
gggctaccac ggcaccgag gggactccat gagctaccac agcggcagtg tcttctctgc 180
ccgtgatcgg gaccccaaca gcttgcctat ctctgcgct gtctcctacc gaggggcctg 240
gtggtacagg aactgccact acgccaacct caacgggctc tacgggagca cagtggacca 300
tcaggagtg agctggtacc actggaaggg ctgcagttc tcggtgccct tcacggaaat 360
gaagctgaga ccaagaaact ttgctcccc agcgggggga ggctgagctg ctgccacct 420
ctctgcacc ccagtatgac tgccgagcac tgagggtcg ccccgagaga agagccaggg 480
tccttaccac ccagccgct ggaggaagcc ttcttgcca gcgatctgc agcactgtgt 540
ttacag 546

<210> 842

<211> 399

<212> DNA

<213> Homo sapiens

<400> 842

tcacaaactt ttatactct tctgtatata cattttttt ctttaaaaaa caactatgga 60
tcagaatagc cacatttaga acacttttg ttatcagtca atatttttag atagttaga 120
cctggctcta agcctaaaag tgggcttgat tctgcagtaa atcttttaca actgcctcga 180
cacacataaa cctttttaaa aatagacact cccggaagtc tttgttcgc atggtcacac 240
actgatgctt agatgttcca gtaatcta atggccacag tagtcttgat gaccaaagtc 300
cttttttcc atcttttaga aactacatgg gaacaaacag atcgaacagt ttgaagcta 360
ctgtgtgtgt gaatgaacac tcttgcttta ttccagaat 399

<210> 843

<211> 543

<212> DNA

<213> Homo sapiens

<400> 843

```
gtggaatgac atccttactt caaccagaga aaactgctgg atttctgcaa gtcaaaagac   60
attgttctgg ttgcctatag tgctctggga tccctccgag aagaaccatg ggtggacccg   120
aactccccgg tgctcttggg ggaccagtc ctttgcct tggcaaaaaa gcacaagcga   180
acccagccc tgattgccct gcgctaccag ctacagcgtg gggttgtgtt cctggccaag   240
agctacaatg agcagcgcac cagacagaac gtgcaggtgt ttgaattcca gttgacttca   300
gaggagatga aagccataga tggcctaaac agaaatgtgc gatatttgac cttgatatt   360
tttctggcc cccctaatta tccgatctct gatgaatatt aacatggagg gcattgcatg   420
aggctgccca gaaggccctg cgtgtggatg gtgacacaga ggatggctct atgctggtga   480
atattaacat ggaggggcatt gcatgaggtc tgccagaagg ccctgcgttg tggatggtga   540
cac
```

543

<210> 844

<211> 496

<212> DNA

<213> Homo sapiens

<400> 844

```
ccccgattca gtccgggatt gtgggaggct gggagtgtga gcagcattcc cagccctggc   60
aggcggctct gtaccatttc agcatttcc agtgtggggg catctgggt caccgccagt   120
gggtgctcac agctgctcat tgcatcagcg atgtgaaggc cgtggagtgt cccaccagg   180
aaccgaagt ggggagcacc tgttggctt ccggctgggg cagcatcgaa ccagagaatt   240
tctcatttcc agatgatctc cagtgtgtgg acctcaaat cctgcctaat gatgagtga   300
aaaaagccca cgtccagaag gtgacagact tcatgctgtg tgcggacac ctggaagggt   360
gcaaagacac ctgtgtgggt gattcagggg gcccgtgat gtgtgatggt gtgtccaag   420
gtgtcacatc atggggctac gtccctgtg gcaccccaa taagccttct gtcgccgtca   480
gagtgtgtc ttatgt
```

496

<210> 845

<211> 330

<212> DNA

<213> Homo sapiens

<400> 845

```
gcttctcctt gccagagcta ttatgttcaa gctcctgcaa gtggtcaac ctcccagtac   60
tgtgtactg acccatgtc tgctccctgt tccaccagct actgctgtct ggctccccgg   120
acctcgggg tgagtccct gagacgtgg attcagcggc cccagaactg caacacagga   180
tcatctggct gctgtgagaa ttcgggaagc tctgggtgct gtggttctgg gggctgtggc   240
tgcagctgtg gatgtggcag ctctgggtgc tgctgttgg gaattatccc catgaagtcc   300
cgaagtctg cgttctgtg accatgaaga
```

330

<210> 846

<211> 453

<212> DNA

<213> Homo sapiens

<400> 846

```
sgatgaaatc tcaactgtaa tgctcagaga tcttttttca ctgtaagagg taacctttaa   60
caatatgggt attaccttg tcttctcata ccggtttat gacaaaggtc tattgaattt   120
attgtttgt aagttctac tcccatcaaa gcagcttct aagtattgc ctgtgttatt   180
```

atggatgata gttatagccc ttataatgcc ttaactaagg aagaaaagat gttattctga 240
 gtttggttta atacatatat gaacatatag ttttattcaa ttaacccaaa gaagagggtca 300
 gcagggagat actaaccttt ggaaatgatt agctggctct gtttttgggt taaataagag 360
 tctttaatcc ttctccatc aagagttact taccaagggc aggggaaggg ggatatagag 420
 gtcacaagga aataaaaatc atcttccatc ttt 453

<210> 847
 <211> 152
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (53)..(53)
 <223> n is a, c, g, or t
 <220>
 <221> misc_feature
 <222> (87)..(87)
 <223> n is a, c, g, or t
 <220>
 <221> misc_feature
 <222> (100)..(100)
 <223> n is a, c, g, or t
 <220>
 <221> misc_feature
 <222> (110)..(110)
 <223> n is a, c, g, or t
 <400> 847
 caccctgaac tctatgtta ccaatgtgta tcgtctccct ctccctaaag tgnacttaat 60
 ctttgcttc ttctgcacaa tgcttnggt tgcaagtcan aagcctgagn caaataaaat 120
 tccagtaatt tcgaagaatg tgggtgtggt gc 152

<210> 848
 <211> 383
 <212> DNA
 <213> Homo sapiens

<220>
 <221> miscfeature
 <222> (112)..(113)
 <223> n is a, c, g, or t
 <220>
 <221> misc_feature
 <222> (267)..(267)
 <223> n is a, c, g, or t
 <400> 848
 ctgactgaa gatattttgc tagggaagtg aaactttaa atttgtaga tttaaaaaa 60
 tattgttgaa tgggtgcatg caaaggattt atatagtgtg ctcccactaa cnntgtacag 120
 atcaggacac atatttttag acatctaagt ctgtagctta aatggaggtt actcttccat 180
 catctagaat tgtttactta gtaattgttg ttcttttat tattatagac ttactatcag 240

ttttatttg ccaagtatgc aacaggnata tcactagtat atgaaaatgt aaatatcact 300
tgtgtactca aacaaaagtt ggtcttaagc ttccaccttg agcagccttg gaaacctaac 360
ctgcctcttt tagcataatc aca 383

<210> 849

<211> 506

<212> DNA

<213> Homo sapiens

<400> 849

tttccttca gtaatccct taaggagaaa atatatggac ctgattcag ccttcagaat 60
ctccaaaaga ggagtcacatc attcatagag cacactaggg tgtaggaga gagctttgca 120
tactctgaga ggctacttgg aaaggcatct tccaggaga gctctgtcag gtggctgcgc 180
ttcagcccca cccctacacc acagggtctc ctgggtatg ttctgggca agcaatcaca 240
aagccagaga agctgtaagc tgctgccgg gcctgaggag ctccaaccag ggaagactgg 300
atgtgaggag aggagtcact gtcaccaggc cacagactga ctgaggatg gtaggatga 360
ggaggaacag atgcccttct ttaattggtt ctacgttaac ttctcagagg ctctggagaa 420
cgggacagtg gctttctagc ctctgaatgt tccaaataaa atttttggt ctggcccct 480
gtactgtttt acctctaaat tctggc 506

<210> 850

<211> 244

<212> DNA

<213> Homo sapiens

<400> 850

ccgcgcgtgt ggacgggtcc aaatgcaagt gctcccggaa gggacccaag atccgctaca 60
gcgacgtgaa gaagctggaa atgaagccaa agtacccgca ctgcgaggag aagatggta 120
tcataccac caagagcgtg tccaggtacc gaggtcagga gcaactgcctg caccccaagc 180
tgcagagcac caagcgctc atcaagtgtt acaacgcctg gaacgagaag cgcagggtct 240
acga 244

<210> 851

<211> 538

<212> DNA

<213> Homo sapiens

<400> 851

atctatccgt accaaatgat gttgaataat tacatatctt tcttgactat actgatttct 60
tattttggtc actattacta aatctctgtt aatattctct cttttaactg aaaagggatg 120
ggatagaagg gtttgcaatg ccatattatt ggtggagggc tgtttaaca tctttgaagt 180
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ttaattttgt ggtcattgtt tctcttcgat aaatttattt tcattaaata cttgttagag 420
ggttttgaat tgttttcaa atatgtgaaa tgtgaaactg ctgtctttta tattaaagta 480
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<210> 852

<211> 554

<212> DNA

<213> Homo sapiens

<400> 852

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tggggggtcc tggccctgt gatgctcccc catccccacc cactctaca tccatccaca 180
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tgctccctga ggggggcccg ggaggggctc cagcaggagg ccgtgggtgc cattcggggg 300
aaagtggggg aacgacacac acttcacctg caagggccga caacgcaggg gacaccgtgc 360
cggcttcaga cactcccagc gccactctt acaggcccag gactggagct ttctctggcc 420
aagtttcagg ccaatgatcc ccgcatggtg ttgggggtgc tgggtgtct tgggcctgg 480
acttgagtct caccctacag atgagagggt gctgaggcac cagggctaag caattaaacc 540
agttaagtct ccca 554

<210> 853

<211> 549

<212> DNA

<213> Homo sapiens

<400> 853

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cgatcgtcgt catgctcgtg ggtaacaaaa gtgacctcag ccaggcccgg gaagtgccca 180
ctgaggaggc ccgaatgtt gctgaaaaca atggactgct cttcctggag acctcagccc 240
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gcaccacctg cccccactgg cttttgtgc ccctgtgcc cacttcagcc ccaggacctt 480
tccttgccct ttggtccag atatcagact gtccctgtt cacagcacc tcagggtctt 540
aaggtcttc 549

<210> 854

<211> 554

<212> DNA

<213> Homo sapiens

<400> 854

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ttaatgaag ctacacattt gggtaatcta gcaaatgaag tatttttcc ctcttgcaa 180
ctgtgtcag agttactctg gctgagtcac acttcgctg gggaaaacct atggaacct 240
ctgcaaaaag attgtccaaa atgcctaaga aaatactcct ctgatgcatt tagcctcaa 300
ccctacctgt ctgtctgaag ggagaaaaat gtttagtac attataggcc cagcagctt 360
tattcatgtc caccagctag ttgcacagag aatcatgtgt acctaactaa ggatgatcta 420
ggataagtaa ctctgtttt atattgagta ttttagggaa gtctttaaaa gactgtttt 480
atatctataa atctagggtt ttacaaatac aagaattttg taccttaaat aagcctcatt 540
tctatttctt ctcc 554

<210> 855

<211> 542

<212> DNA

<213> Homo sapiens

<400> 855

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taattaaagc tacctcctaa actatagtgg ctgccagtag cagactgtta aattgtggt 180
 tataacttt ttgcattgta aatagtcttt gtgtacatt gtcagtgtaa taaaacaga 240
 atctttgtat atcaaaatca ttagtttgt ataaaatgtg ggaaggattt atttacagt 300
 tgttgtaatt ttgtaaggcc aactatttac aagttttaa aattgctatc atgtatatt 360
 acacatctga taaatattaa atcataactt ggtaagaaac tcctaattaa aaggttttt 420
 ccaaaattca gggtattgaa aattttcat ttattcatt taaaactag aataacagat 480
 atataaagt gtaatcttt gtgctatatg gtatgaaata caatattgta ctcaagtgtt 540
 tg 542

<210> 856
 <211> 320
 <212> DNA
 <213> Homo sapiens
 <400> 856

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 agtgtggtca ccgagtgagg accctcctca ccagggaaccg catccctgtg ctgcctccac 180
 ctgagagttg ctaggggggt ctgtcgaga tcatgtcatc agcaccctca agtcaagtca 240
 cgggtttcca tagccaggca gttggtatgt acaattcagt tcagcgtatg aacttgatc 300
 tctaactctga tgtccattt 320

<210> 857
 <211> 501
 <212> DNA
 <213> Homo sapiens
 <400> 857

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 aggtctcaag gaagagtcaa ctgggacaag cacaagccca ccggacatgg ccttggtaaa 180
 ggttagcaga ctggtgtgtg tggatctgca gtgcttact ggaaataatt tattcattgc 240
 agatactttt taggtggcat ttattcatt tctgtgctt taaataaaca aatgtacca 300
 aaaacaagta tcaagctgtt taagtgttc ggctacttgt cccctgggtc agtagaggcc 360
 ccggtttccc agttgtgac tgtgacaggc tcagcatggg ctcagcagat gctgtcttaa 420
 ttgtggatg atacagaaag ccaggcttg ggatacaagt tcttctctc tcatttgatg 480
 ccgtgcactg tgtgaagcag a 501

<210> 858
 <211> 531
 <212> DNA
 <213> Homo sapiens
 <400> 858

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 tcaaagtggc cattacatcc tcttttaatt ttacataata cagatacttg agaaagtgt 180
 tgtggtgttg tatccaaga aaattctttt tattggtgcc tatattgtaa caattattt 240
 taatgcattg tattttgaag taacgggtca gttaaattt tcacctgctg tgtaactgaa 300
 gcacaattac agtttataat catctgtaga agtctggaga taattttgca actcatgtta 360
 tgggttaaat gaatttttt gtaaaagtaa aagcaacaaa ttataaatt gattatttga 420
 aactttacaa cacaattgca tcccaaatac aaattgtatt gcttattcat tatagctatt 480
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<210> 859

<211> 493

<212> DNA

<213> Homo sapiens

<400> 859

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ggcagccac aagtttctcg tggggagatg gaggcagagc ccagggtagg ggacagagct   60
gctggggcct ttcctgcct gggaatctgt cccaggaaga gcttccccac tcccatcccc   120
caaattggaa aaaccgtaca ttcaagcctg ttggccctg aaattcttaa gaatctggtt   180
aagaattaac tactaatgt caaaagtcaa aacctcctag gggttgtcct gggagtcagg   240
ttcacgggta cagaagatga atctcagatg tactcaacc tgagccgtca ttctctgtgg   300
cagggtgcc ctgggtttct ctactcaat cctggagtg taagcatttg gattgtgtca   360
cagattacct ttctacatt tctttcttt ttttctttt ttcaatac agtcccaca   420
ccttactgag tattgagtt tagagcttc gcttgatgtg ctgaccaag agactcttt   480
tgtatccttt tct                                     493
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<210> 860

<211> 527

<212> DNA

<213> Homo sapiens

<400> 860

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ttcacgggcc gacgactgag tggaaactgag gccacgtac tggggctggt gaatcacgct   60
gtggcccaga acgaggaggg ggacgccgcc taccagcggg cagagcact ggcccaggag   120
atctgcccc aggccccat tgccgtgcgg ctgggcaaag tagccattaa ccgaggaacg   180
gaggtggaca ttgcatctgg gatggccatt gaagggatgt gctatgccca gaatattcca   240
acccgggacc ggctagaggg catggcagcc ttcagggaga agcggactcc caatttgtt   300
ggcaaatgac cccatttta acctcagca tgggagatgc atgccctgaa gacgaggatc   360
cagaaggaa agattgtggc agattgcctt catcattca cctctccaga ctccatttc   420
ttcacaagga tgatgatgga aataaaatga ctggcgtgat gcctggaacc aaggtgctga   480
tctaccacc tactgtacc ttccttagct tcacctggc tagaaat                                     527
```

<210> 861

<211> 464

<212> DNA

<213> Homo sapiens

<400> 861

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atgtacctta tttagcacc agaactaatt tgctaagtct ttgtttagt cctgcaagac   60
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tgttttgtgt cctggtagca gctgttgagt aactttcatt ggaggttggg aaggaagtga   180
ggagaaagtg ttctgttta gtgttttatt tctataata ggatgctgcc taaccagtt   240
catctctatg tctgttcac tgaatattcc gggttaattga aagaaaatat aatggatggg   300
ctccattaaa accagctcaa aaataaattc ttgtcagtaa agatttctg tcaagatgtc   360
ttggattgca cttttgtga ggaaagacag tgtaaatagt taaagaatgt tgataaaatt   420
gaaacatttg gttgtggaat tgtgtgtggt ttagagggt ttct                                     464
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<210> 862

<211> 548

<212> DNA

<213> Homo sapiens

<400> 862

tgcattacta tgacccttcc aaagaagaga acaggccagt ggggtgggtt tctctcgtg 60
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 agggaaacct ctcaaagtg attactaagg atgacacaca ctattacatt caggccagca 180
 gcaaggctga gcgagccgag tggattgaag ctatcaaaaa gtaacatga caaggacctg 240
 aggggaaccag gattcctccc tctaccaga tgacacagac aagagttcct ggagaatggg 300
 agtgtaaga cttttgactt ctttgtaagt ttgtactgc ttggagagt gaatgctgcc 360
 aagagttcct cagattacaa acagcagtgg tgccatttcc tccccatct tcatgttaca 420
 aacctggaaa ggctagaaca gccattaggc gtcagcatct tgacttttcc ccagcatcac 480
 aaacagccat ttctcgggg accaaagtag gttcccttgg ttggaacaat tacactggcc 540
 atgccata 548

<210> 863

<211> 505

<212> DNA

<213> Homo sapiens

<400> 863

cgtaggggtg ctgaggttgc ccagggttcc tgacaacacc agaggatttc atggccatga 60
 gaggagcagg gcctgtgtat aaataccttc tattttaat acaagctcca ctgaaaacca 120
 ccttcgtttt caaggttctg acaaacacct ggcatgacag aatggaattc gttccccttt 180
 gagagatttt ttatcatgt agaccttta atttatctat ctgtaataata cataaatcgg 240
 tacgcatggg ttgaagacc accttctagt tcaggactcc tgttcttccc agcatggcca 300
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 gttccctggg ggaagtctgt tctttggtat ggaattttc tcttctt ggtatggaat 420
 tttcccttc agtgactgag ctgtcctcga taggcatgc aagggttcc tgagagtca 480
 ggaaagtct cttgtgcaac agcaa 505

<210> 864

<211> 554

<212> DNA

<213> Homo sapiens

<400> 864

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 tgtatcatat gtgaacattg tatcataggt aatgtgttac agaccctttt atacagtgtat 180
 ctgtcttgtt cctgcagcaa aaatcctcta tggacatagg aggtgctgtg tcccatgcct 240
 tcttgccctg acagtgtccc atgggcccc tctgctccc tgccccctcc ctgctactgc 300
 tgatgactg tctctcctt gcagccctg gcttcccagc ctctcctg acccttcca 360
 acagccttgg aactccagct gccaccacc tctgggtcgg acactgggac cactggccc 420
 agtcttggct gctgcttacc ctagccttg atgcctgcc agggaccccc agccccctcc 480
 cgttgccctg cagctttaa agagtgaacc atgtgtattg tacaggcgcg gttgtcattg 540
 cagaaaccgc tggg 554

<210> 865

<211> 498

<212> DNA

<213> Homo sapiens

<400> 865

ctctctgcag cacgtgggtg tggcggcctg cgccctcctc tgcatctca gcattatgct 60
 gctgcccggag accaagcgca agctcctgcc cgagggtctc cgggacgggg agctgtgtcg 120
 ccggccttcc ctgtgcggc agccaccccc taccgctgt gaccacgtcc cgctgcttgc 180

cacccccaac cctgccctct gagcggcctc tgagtacctt ggcgggaggc tggccacac 240
 agaaagggtg caagaagatc ggaagactg agtagggaag gcagggtgc ccagaagtct 300
 cagaggcacc tcacgccagc catcgaggag agctcagagg gccgtcccca cctgcctcc 360
 tcctgtctgc ttgcattca ctctctggc cagagtcagg ggacaggag ggagctccac 420
 actgtaacca ctgggtctgg gctccatcct gcgccaaag acatccacc agacctcatt 480
 attcttgc ctatcatt 498

<210> 866

<211> 461

<212> DNA

<213> Homo sapiens

<400> 866

tgtctcatc tctgcaaagt tcagttctt tccccaggtc tctgtgact ctgtcttga 60
 tgctctgggg agctcatggg tggaggagtc tccaccagag ggaggctcag gggactggtt 120
 gggccaggga tgaatatctt agggataaaa attgtgtaag agccaaagaa ttgtagtag 180
 ggggagaaca gagaggagct gggctatggg aaatgattg aataatggag ctgggaatat 240
 ggctgatat ctgtactaa aaaagggtct ttaagaacct acttctaact ctctcccca 300
 atccaaacca tagctgtctg tccagtgtc tcttctgcc tccagctctg cccaggctc 360
 ctcttagact ctgtccctgg gctagggcag gggaggagg agagcagggt tgggggagag 420
 gctgaggaga gtgtgacatg tggggagagg accagctggg t 461

<210> 867

<211> 398

<212> DNA

<213> Homo sapiens

<400> 867

aaaccggagg tatctcaaa ggcattgaga cctggtcca gtaaatgtcc caccagtggg 60
 gtatagaaag catgctcatg accctgccgt gtcgtctgag gtaccgttc ttatcctagt 120
 gggtcaggaa gaaaaacgc agtttgcact ttcaagacag ctctctaag gctggcatgt 180
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 tcttgtcat agcaggggac tgaacaaa aataaacatg tatttgtga attggttga 300
 agaagtcttg aatagctctt tactgtctta ctgggggtg ataagattg agtgtttga 360
 atttttact aaatgtagct ccaagtcta aatggctt 398

<210> 868

<211> 489

<212> DNA

<213> Homo sapiens

<400> 868

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 aggatggaaa atggggacaa caaaggaaaa gcaaagtgt acccttgggt ttggacagcc 180
 cagaggccca gtcctccagt ataagcata caggccaggg acccacagga gagtggatta 240
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 aggcactat 489

<210> 869

<211> 495

<212> DNA

<213> Homo sapiens

<400> 869

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gaatagaatt ggtaagtgc aaagactttt tgaaaataat taaattatca tatcttccat   120
tcctgttatt ggagatgaaa ataaaaagca acttatgaaa gtagacattc agatccagcc   180
attactaacc tattcttttt ttgggggaaat ctgagcctag ctcagaaaaa cataaagcac   240
cttgaanaag acttggcagc ttctcgataa agcgtgctgt gctgtgcagt aggaacacat   300
cctatttatt gtgatgttgt ggttttatta tcttaaacct tgtccatac acttgtataa   360
atacatggat atttttatgt acagaagtat gtctcttaac cagttcactt attgtactct   420
ggcaatttaa aagaaaatca gtaaaatatt ttgcttgtaa aatgcttaat atcgtgccta   480
ggttatgtgg tgact                                     495
```

<210> 870

<211> 517

<212> DNA

<213> Homo sapiens

<400> 870

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catagctccc catagtccagg tgtaccagcc agccaaacca acaccacttc ctgaaaaaag   60
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tctgaaagag caagaagaaa gcttaggcag ccctgtccac cattcccat ttgatgtca   180
gacaactgga gatgggactg aggatccatc cttaacagct ttaaggatga gaatggcaaa   240
gctgggaaaa aaggtgatct aagagttgta ccacctatat aaacatcctt tgaagaagaa   300
actaagaagc atttgcaaat ttctctctcg gatattttgt ttattttttt cttagtgcca   360
aaaattatca ttacagtgtg ccatattaag ccatgtgaat aagtagtagt cattatttgt   420
gaaaaattcc caaaagctgg ggaaaacaat gtgtaacttt tccagttact tgacacgatt   480
cagtggggga aaaccagcat ttttattct attgata                                     517
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<210> 871

<211> 519

<212> DNA

<213> Homo sapiens

<400> 871

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tgcattcaca cgtaacagg gcaccagtcg ttaacaagtg gaatggaact caaagacaat   180
attctgtct ctgggaatgc agattctaca gttaaaatct gggatatcaa aacaggacag   240
tgtttacaaa cattgcaagg tcccaacaag catcagagtg ctgtgacctg ttacagttc   300
aacaagaact ttgtaattac cagctcagat gatggaactg taaaactatg ggacttgaaa   360
acgggtgaat ttattcgaaa cctagtcaca ttggagagtg gggggagtg gggagttgtg   420
tggcggatca gaggctcaaa cacaaagctg gtgtgtgcag ttgggagtcg gaatgggact   480
gaagaaacca agctgctggt gctggacttt gatgtggac                                     519
```

<210> 872

<211> 372

<212> DNA

<213> Homo sapiens

<400> 872

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caccaagacg actgcttcag ctctctctct tacccttact ttctttaata gatatttatt   60
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 tgaagctttc attcattctg gagtctacta atttacctga atggtgtttg cattctgtga 180
 aatgcctctc cacgttgc atgtcacact ttgtctgca cataactctt tttcacaaag 240
 aagggtcact gccacaacag cacagtcagc ggggtgaatta caggtgcctg ctgcctgcct 300
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 actcatgtca gt 372

<210> 873
 <211> 486
 <212> DNA
 <213> Homo sapiens
 <400> 873

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 tcacaggcag agaagcctgt ggctaaagt tccacatccc attaactcag tgctttgtc 120
 ttttcatga catggccat agagaaaata ttttttcta gcacacaaga gcaacctgaa 180
 aggctgtccc tggctagggg actctgtccc gggggaccgt gtctccccc atgtcctgcc 240
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 ctgagctcca gcctgtgcc actgataata gcaggacgg cctttctt agagcagctg 360
 ataagttcc ctacctgatg gccccctctg acataaactg cacacctggg gtgatggctt 420
 aaagccagaa agagctgagg gagtaagag ggccaacctt agggcacgtg ggcattatta 480
 aaggtc 486

<210> 874
 <211> 532
 <212> DNA
 <213> Homo sapiens
 <400> 874

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 tctttagcc tctccttaga ggtgaatgtg aatgaagcct ccaggcacc cgtgaattt 120
 ctgaggcctt gcttaagct cagaagtggg ttaggcattt gaaaatctg gttcacatca 180
 taaagaactt gatttgaaat gttttctata gaaacaagt ctaagtgtac cgtattatac 240
 ttgatgttg tcaatttca gtccatttc tcaatttat ttttagaa cctagtcagt 300
 tcttaagat tataactggg cctacattaa aataatgct ctcgatgtca gattttacct 360
 gtttgcgtc gagaacatct ctgcctaatt taccaaagcc agacctcag tcaacatgc 420
 ttcttagct ttcatagtt gtctgacatt tccatgaaa caaaggaacc aactttgtt 480
 taaccaaact ttgttggtt acagtttca ggggagcgtt tctccatga ca 532

<210> 875
 <211> 498
 <212> DNA
 <213> Homo sapiens
 <400> 875

caccaagccg acctcagagt tgttcatctt ccttatggga caaaaccggt tgaccagaaa 60
 atgggcagag agagatgacc tcggaagcat ttccacagat ggtgtcaggg tttcaagaag 120
 tcttagggct tccaggggct ccttggagc tttagaatat ttatgggtt tttttcaaa 180
 tatcaattat atggtagatt gaggatttt ttctgtagc tcaaagggtg agggagtta 240
 ttagttaacc aaatatcgt gagaggaatt taaaatactg ttactacaa agattttat 300
 taataaaggc ttatatattg gtaacacttc tctatattt tactcacagg aatgtcactg 360
 ttggacaatt attttaaaag tgtataaaac caagtctcat aatgatatg agtgatctaa 420
 attgcagca atgatactaa acaactctct gaaatttctc aagcaccaag agaacaatca 480

ttttagcaaa ggccagga

498

<210> 876

<211> 547

<212> DNA

<213> Homo sapiens

<400> 876

gccatcactc tttttgtga ggagcctaaa tacattcttc ctgggggtcca gagtcccat 60
tcaaggcagt caagttaaga cactaacttg gccctttcct gatggaaata ttctcccat 120
agcagaagtt gtgttctgac aagactgaga gagttacatg ttgggaaaaa aaagaacgca 180
ttaacttagt agaactgaac caggagcatt aagttctgaa attttgaatc atctctgaaa 240
tgaagcaggt gtctctgcc ctctcatcaa tccgtctggg tgccagaact caaggttcag 300
tggacacatc cccctgttag agaccctcat gggctaggac tttcatcta ggatagattc 360
aagaccttta cctcagaatt atgtaactg tgattgtgtt ttgaaaaat tattatttgc 420
taaaaccatt taagtctttg tatatgtgta aatgacaca aaaatgtatt ttataaatg 480
ttctgtacaa taaagttaca cctcaaagtg tactcttgga atggattctt tcctgtaaag 540
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<210> 877

<211> 342

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (163)..(163)

<223> n is a, c, g, or t

<400> 877

tgccgtcagc cgaactttgt tatggaggga gcagcctcac acaagcagaa acactcctgt 60
ggatgggtatt gtagcatgta ttgttattt tagtcaatag accctctcct tataaatggt 120
gtttagctct cctgttgcat tcatgggcc tgggggttcc ctngcagagg atattggagc 180
ccctttttgt gacattacca attacatctt tgtccacgtt taatactttg ttttgaaaa 240
tttaaatgct gcagatttgt gtagagtctt aataccaaag acagaagtaa atgtttcca 300
tatactttgt cttgcctgta tgcagccctt gtgtaatatg gt 342

<210> 878

<211> 400

<212> DNA

<213> Homo sapiens

<400> 878

tgtttttatt tgtaccgtcc acttgtgcct tactgtatcc tgtgtcatgt ccaatcagtt 60
gtaaacaatg gcatctttga acagtgtgat gagaatagga atgtgggtgt taaagcagt 120
gttgcatttt aatcagtaat ctacctgggtg gatttgtttt taacaaaaaa gatgaattat 180
caatgatttg taattatate ggttgatctt tttgaaaag atgaacaaa ggatttgact 240
gctaataatt tattctctac acttttttc tgaataagtc tctcataatg agtgcagtg 300
cagactgtgc ctactctgat ggtatgtgcc atttgtaaaa taaaatagag cagaaaaaca 360
caaaaagaga acactgggtc agacattcag tgggcaagta 400

<210> 879

<211> 509

<212> DNA

<213> Homo sapiens

<400> 879

```
gccccctacc aatgcatatg aagagtatgc ttggggaaga gcttaggaat ggggtgggca   60
tgggactgct gggtagcagc ctttagcaa atctgcatct tctctattt ctgaccttt   120
tccacgtgcc cagtcctatt tctgccagt gaaggcatac taatattctt tatactatt   180
aatcttttgc agaaacctta ctattataac ttgtactct ccagatacca attctcatg   240
ccgagagcat cggaaatgtt ttgtgtctt actgatgtt tcatgatcaa ctgtaaatg   300
taagcagttg acttcataaa aggtatttta actattcttg gagtccttg ctaccaagc   360
acctggttc accatgcgat cactgacttc tctacagtga agactcttc ttaatatagg   420
atttcgtgt gctcttttga ttaaaaatat ctaaccttaa aagacgtaaa aatgtatctg   480
tgaaatccta cttgttagc gttgctgct                               509
```

<210> 880

<211> 371

<212> DNA

<213> Homo sapiens

<400> 880

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ttctctgttc tcttgaagt ccagggaaga aggagggccc cagccttaa ttagtaatc   60
tgccttagcc ttgggaggtc tgggaagggc tggaaatcac tggggacagg aaaccacttc   120
ctttgccaa atcagatccc gtccaaagt cctcccatgc ctaccacat catcatatc   180
cccagcaagc cagccacctg ccagccggg cctgggatgg gccaccacac cactggatat   240
tctggggagt cactgctgac accatctctc ccagcagtct tggggctctg gtgggaaaca   300
ttggtctcta ccaggatccc tgcccacct ctcccaatt aagtccttc acacagcact   360
ggttaatgt t                               371
```

<210> 881

<211> 317

<212> DNA

<213> Homo sapiens

<400> 881

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aaatgttgct aagtcctggt atgatggtgt gagcttcctt ggggaagtac ttctgagtt   60
atgtaactaa caggatgttt tactacagat ctggatggct attcagataa catggcaaaa   120
aatgatagca gaagatcatt aaaaacttaa aatatattt attagaaaac atttatctat   180
gaatgaatat ttccttgatg ctggtctctg cacacatatg ctggttact tgcatgcatt   240
cattggtgt tcaataagt agatgattac agataatact gtatttcct tatatggaaa   300
accgttatag acccaat                               317
```

<210> 882

<211> 534

<212> DNA

<213> Homo sapiens

<400> 882

```
tatattcatc tttcagggt aaattgttt ttctgagttt ctgtaatgc tcattttac   60
atgctgttac tagcttttt tttaaaaaa agtaaaagt gctgcttct aaaatattaa   120
ttgccctata ttgaaagtg ccattgcaat cgtaagtaga ctatgtatt cctataatga   180
tgtctgatat taaatagga aatcagacaa acaatatca gaaagttaa gcatataaac   240
ttttatttt taactgcct agatccctgt attccaaaac ctgctgcac ataataaata   300
tatctatata tatttagcat aagacgtgat attttaatt tctttttta aaaattatat   360
ttgtctcta gagttaaatt tttcttata taattgttc atatgtcata gtttaatac   420
```

aattcacatg atttctatgt ttcttaatga tattttgttg tgtaaaattg atcggattga 480
ttaaaaaaca aattctctgg aatttgtgcg ttcattgctt ttcgtattct ttat 534

<210> 883

<211> 500

<212> DNA

<213> Homo sapiens

<400> 883

gatgcatgta tcatacgtgc ttaagcaag tcattgtggcc aagcctagca tcattggagcc 60
agaaagtata gccttgcctg ctgtctacat catgatgtat aaattgatat atctacatga 120
attatagaaa cttagaagtg atctttattc agtcttataa tttttacatg aagaatctta 180
ggcctaggag gagaaaatga ttttcttct attacctaac tagattgggg catatttctg 240
ataaagacc accctagtgt agattcatct tttttgttg tgtgactata ttccatagag 300
aagaaagatg gtagatgctc acttcattat ataccaaagc aaaacacatg ccaaagatg 360
actacatttt accaacaatat tttagcaggt attcttgact agtgtttact atctataccc 420
ccaaaactac tactatatag acagaatgga aagtattct attgttcctt tttttgttt 480
ctgttctaatt tgtcagggac 500

<210> 884

<211> 491

<212> DNA

<213> Homo sapiens

<400> 884

gaggaggaac tgacgcagct acgccacgaa ctggagcggc agaacaatga ataccaagtg 60
ctgtctggga tcaaaaccca cctggagaag gaaatcacca cgtaccgacg gctcctggag 120
ggagagagtg aagggacacg ggaagaatca aagtcgagca tgaaagtgtc tgcaactcca 180
aagatcaagg ccataaccca ggagaccatc aacggaagat tagttctttg tcaagtgaat 240
gaaatccaaa agcacgcctg agaccaatga aagttccgc ctgttgtaaa gtctattttc 300
ccccaaaggaa agtccttgca cagacaccag tgagtgaagt ctaaaagata cccttggaat 360
tatcagactc agaaactttt attttttttt ttctgtaaca gtctcaccag acttctcata 420
atgctcttaa tatattgcac ttctctaac aaagtgcgag ttatgaggg taaagctcta 480
cttctact g 491

<210> 885

<211> 493

<212> DNA

<213> Homo sapiens

<400> 885

cccccatgtt acctggactg gaacagactg tgaatatagc agaaggttcc aagaactctg 60
gtgtctgacc tagaagaggc acagtctct ctactggaaa gaaaacgatg tagccgattg 120
cacaagggtg ccaagggaag acccaggatg gccatcaaa ggaacctggg ggaggatgca 180
ggaggctgaa gggatgcacc tggcatttct ctactgtgc tcttaccgca tcagcaaccc 240
ccaacttttg ggctactct gcccccatg cgtgaatacc ctgcttggtg gctgtgcttt 300
tccggtttgt ctctaagccc cttctccag ggcatgttgg ttccctggc ctctcagtgt 360
cctaactgga gccagagtgt cctgttctg agccaggaga cggctgagca ctggccctcc 420
acacctaagc gtcttttaca ttaacttatt ggtcttgtat aacacctggt gccattgcca 480
agtggctgtg tec 493

<210> 886

<211> 518

<212> DNA

<213> Homo sapiens

<400> 886

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gacaacaatg aagtagcccc tgaacagcat ggagttgctg tgagtttgtt cggtgcagac   60
ctttgtgttg ggtcctggga atctgagctt tgttcctgt gcatggtgga taattgaaac   120
caagaggaca tgggatatagac cttgtgacag accaattctg tgaccctgt cttctgggtc   180
acattattca ttgttgattt aaatacagga ctaccaaaca gtacaaatct atcatgagtc   240
tggtagaaaa gtaaaagtaa aagctgcaca cgttacatac tgtttattgt tctaattgtac   300
aactaactat ttgcatataa tgtgatttaa tttattgctg ttttgttag aaaaggagaa   360
ctaagactg tgatataac ccatgttttg tataatatat tttattctt gtgcgaactg   420
gtcatttaaa atatctactt catttgatgt ttgatataa atgtgtatgt gtccttgtaa   480
atgtttctat caagcaagaa tgccacgtac tcagagta                               518
```

<210> 887

<211> 533

<212> DNA

<213> Homo sapiens

<400> 887

```
gctctggca attagctgga ctccatgacc caccctgggt gcagcataga tccgacgtct   60
gtctgggcga agggtagggg tgggtagggg cgggaagcct gaggcaaat gtcattccc   120
tctactgcct ctctgcct ctcccaccc tgcccacatc cacagagggg agagaagggt   180
catagctaaa tgcaacaaag tctgtatctt gtcccaacct gctttctgt tctgttagca   240
tatcataaag taagcctttc tgggaagga aggttgctat gaaactttt ttcttggtgg   300
aaatggccaa gttaggcac tctgctttt gccttacact aatgcttaga aagctgtctt   360
ttcagtgggtg ttgagcccc cagatgtgtg gccaacctct gctgcaaagg aatctcttgc   420
tgagtccagg ccaccaatca ggcaaatagc ccatacatt gatcgttga aaccatgaag   480
tctttcttg caagacgttt ttctctgct gtggtatctt gccctaaaa att                               533
```

<210> 888

<211> 516

<212> DNA

<213> Homo sapiens

<400> 888

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tggtcacagc gtagtcatt ctttttgag aagttgcttc tttacatca gaaaaccagt   60
caatcatatg gagactctt ttgtatgaa aaagggtttt agaagttaa tacatgcatg   120
cacatgaaaa catgcacaac cacagcctca atctgtatt tagttgggg aaagagaaga   180
gaatttctg tggattattt ttctcaag tgcaccttc tggctaacc aactctgcaa   240
gaaagcactg tgactaaaac atacataacg cctgcataaa tattccatgg tttagtta   300
attcagttt tttagcttta cacatgaggt caaggagtga cgaaaataca agcaggaaaa   360
aatgaaatat ctggttttg ctgaatgctt aattttttt ttactgtgcc actccaatat   420
ttatcaaatc caatagcatg aatgcttctc ttagtaata ctaattttgt gcctttgtc   480
tgctttctta agaccagtgt ttcacattt gtagat                               516
```

<210> 889

<211> 529

<212> DNA

<213> Homo sapiens

<400> 889

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cctcccttcc tggagggatg gccagggaag gagaaaacag agaactgaca ctttgaaac   60
cacagaatgt gttacatgca gactcgctca agggcataag ttattgtgaa cgttttgcc   120
```

aatcactgct caacagccct gctagatttt gtatgatgct gaattattat gcagactaat 180
tccacccagt tgagacacac catgcttggt cacttgattt tattgaaact gtggattctt 240
gccccgtctg tcccttgat ttactttaag cactgatcac ttatcattca ttcggtatgg 300
tttccctgt cccctgtaca cattctggta tgaatttgta aaaataacct gctacaaatt 360
ggttgaatgt ttctgtctgt ggtgcgaacc agcattaacg gatggggcac gtgccaact 420
gaggaacagg agaagaaac accaattgg gctctcagag ctaagacaca cttattgatt 480
ctgtgcaca ttgtcactg gttatggcg attgtttct tggacggat 529

<210> 890

<211> 490

<212> DNA

<213> Homo sapiens

<400> 890

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atatcttagg gtcagaattg cccctttttt tatttgaat gggaagctct cactaaaaca 120
atcctgagat ttcttaattt catggttctt taaatattat aaacacagag tcaacataga 180
atgaaattgt atttgttaaa atacacacat tggaggacaa gacgagatga ctactttcg 240
aagtaatgct gctccttctt aaaagtctgt ttcaatcct ggtaatatta ggggcactgc 300
ggcacctaag aagccctaaa tgagagctaa tccaatttag agagcgatgg tgtcagcatt 360
tcggtctgca tatctgtgtg tccgtatctg cgtttgtgtg cgtgtacgtg tgcccctgtg 420
tgtgggcca gtttcaggc atgtagaata agcatggagt catattgagg aggactcact 480
tcttgaagat 490

<210> 891

<211> 433

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (289)..(289)

<223> n is a, c, g, or t

<400> 891

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ccaggaggac gtggacaagc tgctgcacct gacacattac aatgtctgca acaaccagga 120
gcagctgctg gaggctctgc gccaggcagt gcagcggagg cggcagcgca ggccccactg 180
atggccgggg ccctgccac ccctaactct cattcattcc ctggctgctg agttgcaggt 240
gggaactgtc atcacgcagt gcttcagagc ctcgggctca ggtggcacng tcccagggtc 300
caggctgagg gctgggagct ccttgcgcc tcagcagttt gcagtggggt aaggaggcca 360
agcccatttg tgtaacacc caaaaccccc cggcctgtgc ctgtttccc ttctgcgcta 420
ccttgagtag ttg 433

<210> 892

<211> 399

<212> DNA

<213> Homo sapiens

<400> 892

gaactatcac aattataact taccaacaag aagggaatgc aggtagtgtg ttaggagatg 60
gtacattttt tatataacat tcacttcctt gtgtatttga tagtcttttc atggtttata 120
acattttctc ctgtaaagat aggctaattt ctgaaataat aattaaatt atagaaagcc 180

gagaggaaat tgctagtta ttctggtag aggaatttct gtattgaaa attctccaga 240
aggaataata taaactgtgg actttgggtg ataatgatat gtaggttcgt cagttgttaa 300
caaatgtatc cctctgttg gggctattga taatggggaa ggctgtgcat gtgtgggagt 360
aggaggtgta tgggacatct ctgtacctc taatcaatt 399

<210> 893

<211> 356

<212> DNA

<213> Homo sapiens

<400> 893

aattcttcag tcacgtctgt ttaaaatggg acaaaatcta ttaagttgaa ccatatataa 60
tttggtatat ttgctgttt ttaatctgac aagcagtaac tcatatggg ttgccttaat 120
atatatttgt ttatgcatg aactcataat ccattgatgc tctttcatga gaagagatat 180
gacctatatt tccttattga tattatttgt acaggcagac aaccctggta ggagagatgg 240
attctgggggt catgaccttt cgtgattatc cgcaaatgca aacagtttca gatctaattg 300
ttaatttag ggagtaatta tattaatcag agtgttctgt tattctcaat cttat 356

<210> 894

<211> 498

<212> DNA

<213> Homo sapiens

<400> 894

ggctgagcac cagtgagttc ttgcctcta ctctgacct agacaacctg gggagggacc 60
ctgtgcccgc aaaccagaca cataggacaa agtttatcta taacctggaa gaccatgagt 120
gggtgaaaa catggagtcc gttttatagt gactaaagga gggctgaact ctgtattagt 180
aatccaaggg tcatttttt cttaaaaaaa gaaaaaaagg ttccaaaaaa aaccaaact 240
cagtacacac acacaggcac agatgcacac acacgcagac agacacaccg actttgtcct 300
tttctcagc atcagagcca gacaggattc agaataagga gagaatgaca tcgtgcggca 360
gggtcctgga ggccactcgc gcggctgggc cacagagtct actttgaagg cacctcatgg 420
tttcaggat gctgacagct gcaagcaaca ggcactgcca aattcaggga acagtgttg 480
ccagcttggg gcatggac 498

<210> 895

<211> 453

<212> DNA

<213> Homo sapiens

<400> 895

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gtattttgca aaagctactt ttctagtgtt tcagtattac ttcatgttt taaaaatccc 120
tttaatttct tgcttgaaaa tcccatgaac attaaagagc cagaaatatt ttctttgtt 180
atgtacggat atatatatat atatagtctt ccaagataga agtttacttt ttctcttct 240
ggttttggaa aatttccaga taagacatgt caccattaat tctcaacgac tgctctattt 300
tgtgtacgg taatagtatt caccttctaa attactatgt aatttactca cttattatgt 360
ttattgtctt gtatccttct tctggagtgt aagcacaatg aagacaggaa tttgtatat 420
tttaaccaa tgcaacatac tctcagacc taa 453

<210> 896

<211> 465

<212> DNA

<213> Homo sapiens

<400> 896

atattggtca ttgatcttcg ttcataaatt agtctacaga aaaaaaatgt tctgtaaaat 60
tagtctgttg aaaatgtttt ccaaacaatg ttactttgaa aattgagttt atgtttgacc 120
taaattggct aaaattacat tagataaact aaaattctgt ccgtgtaact ataaattttg 180
tgaatgcatt ttcttggtgt ttgaaaaaga agggggggag aattccaggt gccttaatat 240
aaagtttgaa gcttcatcca ccaaagttaa atagagctat ttaaaaatgc actttatttg 300
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taaaacagac atgtattttt gtttgcgaa tggatgaaac cattgcattc ttgtacactg 420
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<210> 897

<211> 447

<212> DNA

<213> Homo sapiens

<400> 897

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cccaggagcc caccctcccc tctggcccag ccaccactgc ctctcagctt caacaggtga 120
caggctgctt tegtacttg atattggtgt catagcattt ggcctacatt aaaagcccca 180
attcaggggg aaaggacaaa atggagagtg actgaggtgc tgacctcagg gcaaggctgg 240
tgaacctgac agcggggcag ctatggtggg aagcctggca ttgggggtgc tcttgcaac 300
gtcttaagca agcgaccccc ctgacatagc aaaaggtggc aacctatgga ggcagaaaga 360
aggacgccag cctgaccctt atctgaaacg tcctaagcag agttaatcct ggctgctcag 420
gagaggcgac acatttcaaa tctccac 447

<210> 898

<211> 468

<212> DNA

<213> Homo sapiens

<400> 898

aactgtgtat acattcttac tgttgaaca actattgcct ttaattaaat gtttcatttt 60
tctccagagt ccccaaagcc acatggcatt attatagtc ttttgagat gcctgtagag 120
aatgaaagta ttgactccgt tagagggaaa atgggtttct ctgggtgaat tcaacgaag 180
catacctagg ggtaacagtg aacctacctg ggtttgtttt gttttggtta ggatttatgt 240
agtgtctggc tgtaagcaag aatgagtggg ttataaactt gaagatttct ctgttaaagt 300
cacaaaaatg atcgacaaac aatatttttg tgatgtttat ttaaacgttg tattttataa 360
catacttcaa ggaagagtat cgaagtaagt tgctttataa attaagacta aattcgtatg 420
gatgcagaat tcaattaata aaatttgagc ctgttacgta aattgaat 468

<210> 899

<211> 528

<212> DNA

<213> Homo sapiens

<400> 899

agtgttgtgt agcttaatcc ttctgaagtc tttttgcat gtagctatta atctgtggct 60
atgaaatgat cagaaatgct aagtgaagtc aatatttgtt tggaaaaaaa atcttgggaa 120
acaaccaag ggttttcgct gttgtgtttt ttctttttct atttttgttt acttagtctt 180
ttagctagtg gatttaattt tgttgtgcct gttcatttt gcaataacaa tgcagtagaa 240
ttataaactt ggatgcttaa gaggcctgca tatagataag aatttcaggc aaaactacat 300
ttattgttaa taacagcttg ttcataggct ctgtatttt atgtaactgt gataaataat 360
gaaacttagt tatattgagg ttattgttg tcggtgaagt gtagtcaca gtattttcaa 420

aagtttgcac atattgttct gtgtaattgt gtaagccata attacagtgt ttaattctct 480
tttctatta catcattcat tgaaagtgat cactttacca ttttgaaa 528

<210> 900

<21 1> 483

<212> DNA

<213> Homo sapiens

<400> 900

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actccaaaga gataggaaaa ctgccgcct cttcttttt gtccctaat caaactcaa 120
taagcttaaa aaaaatccat ggaagatcat ggacatgtga aatgagcatt ttttctttt 180
ctttttttt tttttttt aacaaagtct gaactgaaca gaacaagact tttcctcat 240
acatctccaa attgtttaa cttactttat gagtgttgt ttagaagttc ggaccaacag 300
aaaaatgcag tcagatgtca tcttggaatt ggtttctaaa agagtaaggc atgtccctgc 360
ccagaaactt aggaagcatg aaataaatca aatgtttatt ttccttcta ttaaaatca 420
tgctaattga acagaaatag agggtttgg ccaaatgcta tgaacggccc tttctaaag 480
aca 483

<210> 901

<21 1> 393

<212> DNA

<213> Homo sapiens

<400> 901

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agatggcaaa accacaaact atttgatgg actgtgtgc agtatcacca gaagacatta 120
gggggacagta ggccccaca caaaaccttc aggcctgaat tttaaagggg aggactttct 180
gccaactttt ctgtatgcc ttgggaaagc cagttgccct gaaccagca gacaccatgg 240
aatgtccttt gcacgcatta aatggtacag aactgaagcc tcggaagcaa ttggaactc 300
gatcttctct tccttaaag aaaagttatt gaccaaaggg actttttaa agacacagga 360
cccttaactt tgcccaaag tgaggggctc cac 393

<210> 902

<21 1> 563

<212> DNA

<213> Homo sapiens

<400> 902

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attatgcttt cattacctgg ttggttaaa ctagacttaa gaggtctgc tctcagaag 120
ttggaactct gaaaaatgct gaacgagaac aagaatcaga agaagaaatg tgactttgat 180
gagcttccag ttttctaga taaacctttt ctttttaca ttgtcttgg tttgtttct 240
cgatcttttg ttggagaac agctggctaa ggatgactct aagtgtactg ttgcatttc 300
caatttgggt aaagtatttg aatttaaata ttttctttt agctttgaaa atatttggg 360
tgatacttc atttgcaca tcatgcacat catggattc aggggctaga gtgattttt 420
tcagattat ctaaagtgg atgccacac tatgaaagaa atattgttt tattgcctt 480
atagatatgc tcaaggttac tgggcttgc actatttga actccttgac catggaatta 540
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<210> 903

<211> 471

<212> DNA

<213> Homo sapiens

<400> 903

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accgtgggga ggaggaagcg tacctcaact tcattgcccc ctccaagcgg gaggttctacc 180
tgtggacaga tgggctcagt gccttgctgg gcagtcccat gggcagcag cagacacggc 240
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tgcccatccc cgagcggcca cccctgtgc cccaccccc caccaacttc aacttctgct 360
atgactgcag catcgctgaa ccttgacagt gtggctggcc atgggccaca gctgcggcca 420
ctgcagcagc catgaaggcg agtgggtaga ggagtgcagg caccctgacc a 471

<210> 904

<211> 495

<212> DNA

<213> Homo sapiens

<400> 904

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cacggccctg cgtagcagca ccagccggcc ccaccctgc tcgcccctat cgctccagcc 420
aaggcgaaga agcacgaac aatgtcgaga ggggggaag acatttctca acttctcggc 480
cggagtttgg ctgag 495

<210> 905

<211> 437

<212> DNA

<213> Homo sapiens

<400> 905

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tcagcaacca gccggtctta ttccagtatt atttgccgg tggttattgc ttgattgta 180
ataacacttt cagtatttgt tctggtgggt ttgtaccgaa tgtgctggaa ggcagatccg 240
ggcacaccag aaaatggaaa tgatcaacct cagtctgata aagagagcgt gaagcttctt 300
accgttaaga caatttctca tgagtctggt gagcactctg cacaaggaaa aaccaagaac 360
tgacagcttg aggaattctc tccacaccta ggcaataatt acgcttaatc ttcagcttct 420
atgcaccaag cgtggaa 437

<210> 906

<211> 434

<212> DNA

<213> Homo sapiens

<400> 906

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aactgtgtta cctttcaagt ttatctcaat aaccagggtca tcagggacctt attgttctt 180
tcagaacctt atctgggaga gaaggcgaac cacctccggg ttccatcat gtcaagggtca 240
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tcctcctcgg ccctgcccc cttcagggt gctgtgagat ggaattccag gaaagaactt 360
cagggtgtctg gacccttct atctagataa tatttttaga ttctctgct ccctagtgc 420
ctacctgggg gcaa 434

<210> 907

<211> 551

<212> DNA

<213> Homo sapiens

<400> 907

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gtagctactc a 551

<210> 908

<211> 413

<212> DNA

<213> Homo sapiens

<400> 908

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tacttgggct gacctgacct ccgaaagaga aacagacaac tctgttctca ggattgggga 180
tggacggctt cggccaagcg ttttagcctc attcactcag gccccactca gcactctgcc 240
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tgttcttgc tgaattggat tgttgacttg tagttcagag gcgtacaact agttggcgat 360
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<210> 909

<211> 535

<212> DNA

<213> Homo sapiens

<400> 909

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agttttttc attgccaaaa actaaatggt gctttatatt tagattggaa agaatttcat 180
atgcaaagea tattaaagag aaagcccgtc ttagtcaata ctttttcta aatggcaatg 240
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gaccaagggt cattacaacc tggcctttta ttgtattgt ttctggctt ttgtaagttc 480
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<210> 910

<211> 366

<212> DNA

<213> Homo sapiens

<400> 910

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cacaaaggaa caaagcagct ataaactaaa tagaatgcaa ctatctgctt ttcttatgct   180
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cattattaat ttttaggga tgggcactgt gcaaagactc catagctgtg cctaggagtc   300
taggaaaagt gacagaggct tggctttttt acctttagtt cagccaagtc atttcaagt   360
cctgag                                     366
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<210> 911

<211> 532

<212> DNA

<213> Homo sapiens

<400> 911

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tctcgtggaa cacaggcaaa cccgtgattt tgggtctcct tgtaactcag ccctgcaaag   180
caaagtccca ttgatttaag ttgttgcatt ttgtactggc aaggcaaaat attttatta   240
cctttctat tacttattgt atgagctttt gttgttact tggaggtttt gcttttact   300
acaagtttgg aactatttat tattgcttgg tatttgtgct ctgttaaga aacaggcact   360
ttttttatt atggataaaa tgttgagatg acaggaggtc atttcaatat ggcttagtaa   420
aatatttatt gttcctttat tctctgtaca agattttggg cctctttttt tccttaatgt   480
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<210> 912

<211> 404

<212> DNA

<213> Homo sapiens

<400> 912

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aaagctgcat gttaggatg tatgtctgtt gtacaaacta tticagaata tttgtgaagc   180
tataacatat ttattgtgca ttaaaattaa ataccttttc cccaaaggca tgcagtcatg   240
agaattacag aaaatttga acatataaag tagtttgatc taagaggatt caacaccttt   300
gtttgttgc tcaagtgtga atgactgaga ttgttaaate tttgtgaaca ttctgtactg   360
gttccaaga gctattcatt cctgctacc tgatttcagc acaa                       404
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<210> 913

<211> 503

<212> DNA

<213> Homo sapiens

<400> 913

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ggagctactg atttggggca aagtgaacc tctgcttcag actcagaaa caaatctcag   180
aagacaagct gacctgacaa gtactatgtg tgtgcatgtc tgtatgtgtg ttggggcggt   240
gagtgaagg atgcagtggg agcatggatg ctggcatctt agaaccctcc ctactcccat   300
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agaggctgga cccatggcaa gccatttaca gaaaccact cggcacccca gtctaacacc 420
acaactaatt tcaccaagg tttaagcac gttcttcat cagaccctgg cccaatacct 480
atgtatgcaa tgctcctcag ccc 503

<210> 914
<211> 331
<212> DNA
<213> Homo sapiens
<400> 914

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agcaacgaac acctgcactt agaaaaagt gacagcttct gccaacca cactaccat 180
ggtactgtat gctattaact cctggaaacg ccccgtaa gcgagtgtt ttgtatttg 240
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tgttatttt attgcatga ctgccctga g 331

<210> 915
<211> 434
<212> DNA
<213> Homo sapiens
<400> 915

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tgggagctca ggccccgcaa cccaggggt caacatggcc aacagcatcg ccagcctccg 120
tctcaaggcc aaggagtca gcctgcacca cagccagggt cctacggtga actgaagtcc 180
agtcccacca ggaccagac gcctccctgg gtggacagca atagaaaagg gggcagacgc 240
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gagcccacga ggctgttgag gccctgcag ccgggccag ctcttctgtc ctggccacc 360
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gacctcattt agtt 434

<210> 916
<211> 488
<212> DNA
<213> Homo sapiens
<400> 916

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aacaagtatt ttgctatata taaagacaac aaaagaaatc tctaacaaa agaactaaga 180
ggcccagccc tcagaaaccc ttactgcta catcttggg cttttaatg gaaaccaagc 240
caatgttata gacgtttgga ctgatttg gaaaggagg ggaagaggg agaaggatca 300
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actatttt 488

<210> 917
<211> 381
<212> DNA
<213> Homo sapiens
<400> 917

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gattaaagta tctccgcttt ctggggaggg aataggggat gtttatcag tgaatgtgcc 120
atacacctta tgggccactt catgtgcctt tcagacttca aagcgcgcgc gcatgtgtgt 180
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cacctcattc ccattgtttg gatcatgctt cttccaaca cgtgttcaca atctccaaag 360
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<210> 918

<211> 569

<212> DNA

<213> Homo sapiens

<400> 918

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tcgttttaat attgaaaaag cactgtgtgt tttgttttg atatgaaact ggtaccgtgt 540
gagtgtttt gctgtcgtgg tttaactt 569

<210> 919

<211> 460

<212> DNA

<213> Homo sapiens

<400> 919

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cacatatatt tactaagatg attaagactt acattttctg cacaggtctg caaaaacaaa 180
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atttggttc tgcaatattt ttctatgtc cacccttta aaaattatta ttgaagtaa 360
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<210> 920

<211> 540

<212> DNA

<213> Homo sapiens

<400> 920

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tacatagcca tatccaggta catccacaaa tccagcaggc aattcataag tcagtcaagc 180
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aatgtttgcc tggatccaat aatttactt ttcatgtgta ggtcatttc aagaagctg 420

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<210> 921

<211> 232

<212> DNA

<213> Homo sapiens

<400> 921

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actgaacggg ctgaggaaat gttcctttac actcagaaca ttctattta agtatattat 180
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<210> 922

<211> 424

<212> DNA

<213> Homo sapiens

<400> 922

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gccataaagc tgatattctt tgtccgatta attgaaatc tgcacagaag ctgttttagt 360
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<210> 923

<211> 571

<212> DNA

<213> Homo sapiens

<400> 923

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<210> 924

<211> 385

<212> DNA

<213> Homo sapiens

<400> 924

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gatcttttat aaatgtttcc ttataaatat ctaccatta caacaaattg tttaactgt 120

ttttctatta gctctagctg catatttgat gtaaatgaca attactgaaa aaatgtcaga 180
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ataactaaat aacacacaaa catcaagagg ctatttatac aaataattta ttccactag 300
ggaaagtgca ttactgggga aggtattatc aatttattct acttgcttat aatgttacag 360
tgaatgttct ggcttactct gcctc 385

<210> 925

<211> 386

<212> DNA

<213> Homo sapiens

<400> 925

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cgatgtggca atcgaactca aagctgtgtt cacagatcgg cagctactca gaaattcttg 120
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acaccaactt ttgattttt accatcgcat tcaaactgta tctgaattg acaccataaa 300
gataaatgga gacctccaga tcaccaagct tggctgattt aaaccacctc tatttcaat 360
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<210> 926

<211> 480

<212> DNA

<213> Homo sapiens

<400> 926

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<210> 927

<211> 514

<212> DNA

<213> Homo sapiens

<400> 927

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gatcataaca cctacctcat ggagttgtgg tgaagtga atgaagtcat gtctttaaag 480
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<210> 928

<211> 554

<212> DNA

<213> Homo sapiens

<400> 928

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agttaagcct ttggaacag ctgacttta aaaagctcca aatgcagctt taaaaaatta   180
atctgggcca gaatttcaa cggcctcact aggcttctgg ttgatgcctg tgaactgaac   240
tctgacaaca gacttctgaa atagaccac aagaggcagt tccatttcat ttgtgccaga   300
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gtcagatgct gtgcaaatgt tattatttta aacattatga tgtgtgaaaa ctggtaata   480
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aactttatgc tgta                                     554
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<210> 929

<211> 547

<212> DNA

<213> Homo sapiens

<400> 929

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gtgggtataa actgttgaaa ccaatcacat taaaatatt agctgggcac agtggtgtgc   240
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gaatccagcc tgagcaacag agcaaaacc cgtctctaaa atacaaataa aatattgtg   360
tagttttga ttaaattga ctacagcggc cagtataaaa tacatgtcgc ttttaaggaa   420
gtgctcttta tgtatctaac agatggaagt ttgtcattg gtaagagcat ttatatatgc   480
ttgtttcag ggttatgga ttgtattca tatattgtca aataggtttc atactctaat   540
tttactt                                     547
```

<210> 930

<211> 402

<212> DNA

<213> Homo sapiens

<400> 930

```
gatgagatgg ttgttgcct agtctgttg tagaaccaga aatcaatatg ttgtcttta   60
ggttaaagct tgtacaaaa tatttattc cccatttca agccctgagt caaacatttt   120
tttctcttaa taatagacct gaaatgttt attagtatt ctgtgaaatc agttgattct   180
tgtgccattt ttgtatatgt aattgtaatt ttgccatgt taggccctct aaaaaatgtt   240
tgacatcctt tgagatattt tattactaaa atctgatctt ttttggtac tgcaaaaatc   300
tattcagcaa gaaggtatca gctgcatacc ttgcacagtg gagctgacta cctataaact   360
ctccctaagg cattgttta caggtgtatt ccatttiagc ag                                     402
```

<210> 931

<211> 452

<212> DNA

<213> Homo sapiens

<400> 931

```
cgccgactct ttctactgag ttccagagg aagactagcg cggccaccgc gaagccgcca   60
accaccgga gagggggctt ctgaacttgg actcctggga acatggacaa gcccgcgct   120
```

gccacgccgg ggcctccacc gcctgggcct gagcctgacc gggccattcc caaattggg 180
acgcggaagg agaggctctc ggagcagaag aggccagata ccctgaagca taaagttaa 240
cgtcaaaagt ttaacatgga gaaggcgggt ccgttctgaa gcgtggtctg ctgtcccctg 300
ggcgtgaggc ctctggggcc tgcggggcct ccgatttcat cctcagacgt aatgctcacc 360
aacagcactt gcactgagtt gactcttgca cactcgactc cataatatga tgcttttaa 420
gatgtatgtt cacaccaata attgcctgct tc 452

<210> 932

<21 1> 496

<212> DNA

<213> Homo sapiens

<400> 932

tgacaggacc aggatgtccc tcatctttgc caaccagaca gaggaggata tcttggtcag 60
aaaagagctt gaagaaattg ccaggactca ccagaccag ttcgacctgt ggtacaccct 120
ggacaggcct ccattgggt ggaagtacag ctgaggcttc gttactgccg acatgatcaa 180
ggagcacctt cctcctcag cgaagtccac gctcatcctg gtgtgtggcc cgccaacact 240
gatccagacg gcggctcacc ctaacctgga gaagctgggt tataccagg acatgattt 300
cacctactaa caaacacctc catgtgctca gcaaatgtgc atgtccctt tcatctgtt 360
cagagtaagt tcaatttcac cacggtaaac tgggatgtt tcaaaagtgc cttgccatgt 420
accttcgcgc acacactgggt tctcctctt tgggtgtggg ctaacaaaa agggctcaag 480
gggctggaga ctggct 496

<210> 933

<21 1> 487

<212> DNA

<213> Homo sapiens

<400> 933

ggcccacctc agctgtagt gtacctgcca cggggccagc ccccccacagc gcaggggctg 60
gtctgtcg cg gatctcagt aaggaggtgg tgcggaggca agaggctggg ctaggtagc 120
ctagcttggt ggccctgggt gtgtttgggg cctcactgc tgccctgggt ctggtactg 180
tgttgctgac cctgagggcc tggcgccggg gtgtctgccc ccctggaccc tgttgctacc 240
ctgccccaca ctatgctcca gcgtgccagg accaggagtgc tcaggttagc atgctgccag 300
cagggtccc cctgccacgt gactgcccc ctgagcctgg aaagaccaca gcactgtgat 360
ggaggtgggg gctttctg gc ccccttctc acctctcca cccctcagac tggagtgtc 420
cgttctcacc accttcagc ttgggtacac acacagagga gacctcagcc tcacaccaga 480
aatatta 487

<210> 934

<21 1> 321

<212> DNA

<213> Homo sapiens

<400> 934

tccattacca agagctcatg ccacccgggt cctgcatgcc agaggagccc aagccaaaga 60
ggggaagacg atcgtggccc cggaaaagga ccgccacca cacttgtgat tacgcgggct 120
gcggcaaaac ctacacaaag agttccatc tcaaggcaca cctgcgaacc cacacagggtg 180
agaaacctta cactgtgac tgggacgggt gtggatggaa attcggccgc tcagatgaac 240
tgaccaggca ctaccgtaaa cacacggggc accgcccgtt ccagtgccaa aaatgcgacc 300
gagcatttc caggtcggac c 321

<210> 935

<211> 194

<212> DNA

<213> Homo sapiens

<400> 935

```
gcatcagtga atcggggccac atctgcagcc agatgttcca aggccagatc ctggacgtga- 60
aggaggccg gggctacgac cgggaccacg tgggtctatg ggagccggat gaggacaggg 120
catccagat ctggactatc cacgtgcttt gaaactttc ccctaccct ccagccctgg 180
aggctttgc tggg . 194
```

<210> 936

<211> 415

<212> DNA

<213> Homo sapiens

<400> 936

```
aaagactgga acccacgttc tcagctctca ccaagtggac ttttgcggg gtgtggcggc 60
cgggtctcga ccacagcgtg gatcaccggc tgttaggaa actgcagctg cacaacgtgg 120
ggtgcaaaac tgccccgctt cctttacagc tcttctcaac cctcacctcc atccccgctc 180
accaggcac cttcgttcc agatgtgcc aggtgtcac tcaattcggg catttcattc 240
attatcaca catgggcact ggggttgggc taacagcaag agacaatagg cctttgttcc 300
tattattgg gtactctta cgtgctaagc agatcagttt attaatgct tgcaacgact 360
ctctgaggta gaaaatattg ttaattccgt tcaggatccc ggctacataa tctgt 415
```

<210> 937

<211> 523

<212> DNA

<213> Homo sapiens

<400> 937

```
agctcacgat gggcagtggt ctccatacta ttattagctc tcattgtccc cctgggccta 60
gccgtagggc tggctgtgac tggaggggac tctgaaggag ggccgggctt agcccaggct 120
gtgttagagg gtgtggcagc tggtaacctc ctgtatgtca ccttcctaga aattcttcca 180
cgggagctag ctagtctga ggccccctca gctaagtgga gctgtgtagc cgctggtttt 240
gccttcatgg cctttattgc cttgtgggcc tgagagattc ctggcttttc tgatggacct 300
attaggaca acctctctat cccaggggag acctcccaa tggtttgac cctcagacat 360
ttcttactic agactaaata gcattcagta ggactggact ggacccagg ttcctttac 420
atgagatccc attctcacc ctggactaag acaaagatat ttagggtgag cagctattaa 480
ttggagaatt ggtacagaga cgctccagat ttattctta tec 523
```

<210> 938

<211> 511

<212> DNA

<213> Homo sapiens

<400> 938

```
aaggaaactc atctccgagg ttgacagcga cggcgacggc gaaatcagct tccaggagtt 60
cctgacggcg gcaaggaagg ccagggccgg cctggaggac ctgcaggtcg ccttccgcgc 120
cttcgaccag gatggcgacg gccacatcac cgtggacgag ctgagcgagg ccatggcggg 180
gctggggcag ccgctccgc aggaggagct ggacgccatg atccgcgagg ccgacgtgga 240
ccaggacggg cgggtgaact acgaggagtt cgcgaggatg ctgcccagg agtgaggctc 300
cccgcctgtg tccccctggc tgcgtctga gccttcaggg ccaccgcccg ctgctgcttt 360
tgtgtggga ctctccgggg aaacctggtc ggtgatggg aaactgcctc cccctgggag 420
gaaggctttg cgctccgggg cctggatgcg gcgccctcgg gccgcctgcg agccccctc 480
```

tgccttcaga ccttgggcag aaggaggcct c

511

<210> 939

<211> 389

<212> DNA

<213> Homo sapiens

<400> 939

ctagaatttc catgtctctg cttagctgtg ctggcagcta gcagctggct gtgtttgcag 60
tgcaaatagc tctgttcttg gaaatcctgc tcatggtatg tccccagtgg tttcttcac 120
cacatcatct aaagcctgaa cccgttcttc tctggttcaa gtcagtggct gacacggact 180
tgtatctcct tcagagctcg gctggcaccc agcctccctt ctcttccac tccttagta 240
cactggagtg ccgagccctg ccttcaccc agcgtccac cagccctgt cctcacctt 300
ccggcacctc ctctccttc tgcaattcct atcttctgt gtctgtgca tgggaagcag 360
ccttcagtgc cttcatgaat tcaccttc 389

<210> 940

<211> 466

<212> DNA

<213> Homo sapiens

<400> 940

gcattgtgtt ggtatcttca acagtagacc aagaatctaa catcactctc agtaatatag 60
agaccggaat acatgggtta taggaaatga tcaaatgac caaaaaact ccacattttt 120
taagaagtgt gaatttgatt tcatgcataa ctgtattaaa acattaaata gaaataatgt 180
catttgaatg aaaatcttat cacattaaat tcaacttgaa ggcagcatac ttaaaggaa 240
ttgatttcat gcataactgt attaaaacat taaatagaaa taatgtcatt tgaatgaaa 300
tcttatcaca taaattcac tgtgaaggca gcataactaa attttattt tgaaaagtct 360
aaaaggctta gattttttaa atttaataat tatttctaca aatttctat ttttctgag 420
gtgatttca actagcaatt ggaactccta ggctctatta acataa 466

<210> 941

<211> 505

<212> DNA

<213> Homo sapiens

<400> 941

ttcctgttac ttcacctca ggtcgtaact ttctttatgt gtttcattac agctccaaa 60
agcctccag aatttctga ggcaaaaaca ccctccctt ttgagaaacc taggggcaca 120
ttgggttaata agagtacctt aaatttaata ttaaggctgt ggggtggtgat tgcttaattc 180
tgcaggacac atttactgca tcttatttct ggaaacctca tgaactgata gttaggcaaa 240
caaatggttg atttgattt ttttaataa atctatttgg atttctgca aattcggtaa 300
aaccatcag tcttaattcc acataatcca cttagctttt tgcctttaa aatgctgaca 360
gtctgacacc aaactctggt ctctctctga ccactaatca aatgttctct ggatggatac 420
atactgattt cttactgata tataatgact ttttattgta ttgtatact gcaggcttct 480
ggtagccact taaccatacc agcaa 505

<210> 942

<211> 545

<212> DNA

<213> Homo sapiens

<400> 942

aactgatggc tggcatctga tatgcagagt tagtcaacag aactggcat caattacaaa 60

atcactgctg ttctgtgat tcaagctgtc aacacaataa aatcgaaatt cattgattcc 120
atctctggtc cagatgttaa acgtttataa aaccggaaat gtcctaacia ctctgtaag 180
gcaaattaaa ttgtgtgtct ttttgtttt gtcctttctac ctgatgtgta tcaagcgct 240
ataacacgta ttccttgac aaaaatagt acagtgaatt cacactaata aatgttcata 300
ggttaaagtc tgcactgaca tttctcatc aatcactggt atgtaagta tcagtactg 360
acagctaggt ggactgcccc taggacttct gtttcaccag agcaggaatc aagtggtag 420
gcactgaatc gctgtacagg ctgaagacct ccttattaga gttgaacttc aaagtaact 480
gttttaaaaa atgtaagta ctgtaaaata atctatttg gattcatgtg tttccaggt 540
ggata 545

<210> 943

<211> 414

<212> DNA

<213> Homo sapiens

<400> 943

gggctgatca ggttgggta tgcaagaatc tcccatgctg aactgagtga tcagaaatt 60
cagatggcaa aatttaggat ccctgatgac ccactaatt atagagacia ccagaaagt 120
gtcatagacc acagagaagt ttctgagaaa atcatttta atcccagatt tggatcctac 180
aaagaaggac acaattatga aaacaacct aatttcata tgaatactcc caaatactt 240
ttatgaaca tttaaacia gaagttattg gctgggaaaa tctaagaaaa aaagtatga 300
agataaaaag aagagattaa tgaaagtggg aaaatacaca tgaagaacct caactaaaa 360
aacacatggt atctatgcag tgggaatta cctccatttg taaactatgt tgct 414

<210> 944

<211> 163

<212> DNA

<213> Homo sapiens

<400> 944

gaaaagtgc tcaatcaag tgatattct gggatatatc acttcagcac ctggctccag 60
agattatcta cagctcactg aacatggcaa tgtgaaggat atcgacagca ctgatcatga 120
cagatggtgt gaatacatta tgatcgagg gctgatcagg ttg 163

<210> 945

<211> 553

<212> DNA

<213> Homo sapiens

<400> 945

atttctcgg aagctgagcc agtctcctgg tctagcccag gttgccagaa cgcttgcat 60
tgcagagtgc tagagccagt ggagaacttg ccaacttgat tgtttacag cagaggaaag 120
aggatcacag agggaaaatg atcacccaa agtcacacag caagttcatg gctgagctga 180
gaccaggatt aagcttcctg actcccagtt caccatgaaa agggttctgg caacagggtc 240
aagctggaga atccttcaa atgtacacac cacattctct ccaactcttc atctccctga 300
tcttcagac aaactacctg gatgtgccc ttaaaccatt tctagctgtt aaccctatcc 360
agaaaaatga ttgagtata gctgagaagt ggaaagtgtg ggatttttg caggtgctct 420
cttctcctc cccccgcgc catcttctct ctctctctc tctgtaatgg tatgtccagc 480
ctcactctcc ctccctggtg ctgtatgcgt tccccctgt agctacatt gtgatcacat 540
acccttctttaa 553

<210> 946

<211> 560

<212> DNA

<213> Homo sapiens

<400> 946

```
gagtgcagta gcacgatctc ggctctcacc gcaacctccg tctcctgggt tcaagcgatt   60
ctcctgcctc agcctcctaa gtactggga ttacaggcat gtgccaccac acctgggtga   120
ttttgtatt tttagtagag acgggggttc accatgttgg tcaggctggg ctcaactc   180
tgacctagt atccaccctc ctggcctcc caaagtgtg ggattacagg catgagccac   240
cacagctggc ccccttctgt tttatgttg gttttgaga aggaatgaag tgggaaccaa   300
attaggtaat ttgggtaat ctgtctctaa aataatagct aaaaacaaag ctctatgtaa   360
agtaataaag tataattgcc atataaattt caaaattcaa ctggcttta tgcaaagaaa   420
caggttagga cacctagggt ccaattcatt cacattcttg gttccagata aaatcaactg   480
tttatcaaa ttctaattg atttgctttt cttttatat ggattcctt aaaacttatt   540
ccagatgtag ttccttccaa                               560
```

<210> 947

<211> 288

<212> DNA

<213> Homo sapiens

<400> 947

```
ggctgaaagg attttacatt tattcaaagt caaaagggaa aagaatcca agaactacag   60
aagagcagtt gaagtgaatt atgcttgatt tctaaatgca acttatgttt atacataatt  120
taaaactcaa agaaagcatg ctatacaat catgtgcaac tttaaacttt aagaactctg   180
gatgaataca tgggtggcaac agtccatgac acctgaaaac atcatttttg gagtggcgta  240
gagttcagtg ttcgcagtcg catattacaa ccatgtttca cacagccc               288
```

<210> 948

<211> 513

<212> DNA

<213> Homo sapiens

<400> 948

```
ttttatctc cacacgcagt atgaagataa aattacatag tattacctag acatagacag   60
tattacctag gtagatgcac tgctcacctg caccctccc agctctcatt ttgttaggt   120
gatttgggat agggatagtg ttttgggga tggggggagt gttctgacc tgctttgcag   180
acgtgcctcc gcacctcagc agtttggggt gtggccccag ggcggttctt ggatgtaaaa  240
gatgtggcca ttagcctcg taacttact gtcacctgtg tcccataggg tgccttctga   300
atactgttat tagaataagt ttgttcgaga acgtgacctt gcgtgcaaac atgtaccgtg   360
gcctgtgata tgatagagat tgatattaat gtaccatgta tgtaatgtg aatctgtggg   420
caggatactt ttccatggca ggaaatatcc aagctgttga aactggctat gtttaatat   480
gcctcattgt gcctttactg ttgtgtggac tgc                               513
```

<210> 949

<211> 284

<212> DNA

<213> Homo sapiens

<400> 949

```
ctttatcatc ccacaaaca tttgaaact ggaatatttg tcttcagaaa atggaaacaa   60
gactataaat gataagccct gtccctagca ccacctctcc tgtgtgtgga atagaggccc  120
ctcgtgctac caacacttac cctgtgttta aaaagatctt gtaccaagcc aacggcgctc  180
ctggctctcc tgccacagg atgaacattt tcggcttcct taggagtttt gccctaccgt  240
attccaaagc gtgtgctggt ttctcatatt gtctgtaggc tcac                   284
```


<210> 950

<211> 511

<212> DNA

<213> Homo sapiens

<400> 950

```
gggacttaac atttcacgtt gtatcttact tgcagtgaat gcaagggtta cttttctctg   60
gggacctccc ccatacacca gggtcttact ctgggctccc gattcccatg gctcccaaac   120
catgccgcac ggttttggtta atgaaacca gtagctaacc cactgtgtgt tccacatgcc   180
tggcctaaaa tgggtgatat acaggtctta tatcccata tggaatttat ccatcaacca   240
cataaaaaa aacagtgcct tctgccctct gccagatgt gtccagcacg ttctcaaagt   300
ttcacatta gcactcccta aggacgttgg gagcctgtca gtttatgatc tgacctaggt   360
cccccttct tctgtcccc tgttttaag tccgatttt tacagaagga actgtctcca   420
gacagctcat caaggaacca agcaaaggcc agatagcctg acagataggc tagtggtaat   480
tgtgtatatg ggcgggacgt gtgtgtcatt a                               511
```

<210> 951

<211> 316

<212> DNA

<213> Homo sapiens

<400> 951

```
cctctgtcct caaatgtcca aaatgttga ggacctctgt tcatatccca cgcttgggct   60
cttgccagca gtggagttac ttagaggga tgtccaagc ttgtttcca atcagtgtta   120
agctgtttga aactctctg tgtctgtgt ttgtttgtgc gtgtgtgtga gagcacatca   180
gtgtgtgcag gctgtgttc ccatttctc tctcccttc agacccatca ttgagaacaa   240
atgtaagaaa tcccttccca ccacctccc tgctctccag gccctctgcg ggggaaacaa   300
gatcaccag catcct                               316
```

<210> 952

<211> 149

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (55)..(55)

<223> n is a, c, g, or t

<400> 952

```
atattttgta tcactgtgcc tatagccgt gccaccgtgt ataaatcctg gtgtntgctc   60
cttatcttgg acatgaatgt attgtacact gacgcgtccc cactctgtga cagctgcttt   120
gtttctttgc aatgcattgt atggcttta                               149
```

<210> 953

<211> 475

<212> DNA

<213> Homo sapiens

<400> 953

```
cttggtgtcc tgggtgaat agacaagaag ctgtactata tgttgctctc tcagtggcaa   60
caatgaagtt ttgcaattc tagaacttgg atttttttt aacaaaagtc caaaacacc   120
aaaaatgtaa acaagataag agattaatat ttagtgatg taatttaatt aaagtatat   180
```

tttgggttaa tttaacaac tgaagtctta ttgttgaaac ttatttcaa caaaactgtg 240
cagttaaatt tgtatacgtt ttacatact gaaagatgaa ccgttaaaat agcacttaat 300
tttgttttc tcaatatgt ctgtatatac ttgtgcaat taatattaca catgtaagtt 360
gtatggcagt ttacagaact caatgacttg tcatgagggt tcatatgag ctacacattg 420
tgtacattga ttgttttta ttttacata aatccattct gtcatttca acttt 475

<210> 954

<211> 402

<212> DNA

<213> Homo sapiens

<400> 954

aaagtcagtc cattttcaag ttttggctct cagagacaaa agaacgtccc agccacctga 60
ttttgatggt gaggttaact taagttgaat tcaggctagt gttgcagtat agctttggca 120
tgttcatgag tgagcaccca gaatgtgtg aaccaacccc caccctaact tactgactat 180
gactgcagtg ggttttatg gggaaaaaaa gtgtgaaaag caaaaagaaa ggaacagaga 240
tttttatca cctttattgt aagacagtc ctttatgaat tgagtataaa cacatacaaa 300
gtaacaagag attcctaaga aacgcaaac cttgagttc acgcacttca tgtcaacca 360
ttgtctgtaa tccagaggca gcctgtgaat cattctcatg cc 402

<210> 955

<211> 523

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (29)..(29)

<223> n is a, c, g, or t

<400> 955

atccgacttg aatattcctg gacttacana atgccaaggg ggtgactgga agttgtggat 60
atcagggtat aaattatata cgtgagttgg gggagggaag accagaattc ctttgaattg 120
tgtattgatg caatataagc ataaaagatc acctgtatt ctctttacct tctaaaagcc 180
attattatga tgttagaaga agaggaagaa attcaggtac agaaaacatg tttaaatagc 240
ctaaatgatg gtgcttgggt agtcttgggt ctaaagggtac caaacaagga agccaaagtt 300
ttcaaactgc tgcatacttt gacaaggaaa atctatat ttcttccgat caacatttat 360
gacctaaagc aggtaatata cctgggtttac ttctttagca tttttatgca gacagtctgt 420
tatgcactgt ggtttcagat gtgcaataat ttgtacaatg gtttattccc aagtatgcct 480
taagcagaac aaatgtgttt ttctatatag ttcttgcct taa 523

<210> 956

<211> 491

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (332)..(332)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (365)..(365)

<223> n is a, c, g, or t

<400> 956

```
cccaggcctg tcactttgag agggggcaaaa ctgagagggg ctttcctag agaaagagaa   60
caaggagctt gccaggcttc atgtagccga cacacgtctc aggattttaa gtccacattg   120
gcctcacact accagggcca atgcccacaaa taaggagttc caatttgggg ccaaatgagg   180
aaggacacag actctgccct gggatctcct gtgctagcgg ccaatgacaa atccagtcac   240
tggccaccag ccacctctgc agtgggggacc acactagcag cctgactcc acactcctcc   300
tggggaccca agaggcagtg ttgctgtctg cntgtccacc ttggaatctg gctgaactgg   360
ctggnaggac caagactgcg gctgggggtgg gcaggggaagg gaagccgggg gctgctgtga   420
gggatcttgg agcttccttg tagccacact tccccttgct tcatgtttgt agaggaacct   480
tgtccggcc a                               491
```

<210> 957

<211> 253

<212> DNA

<213> Homo sapiens

<400> 957

```
gtaaatagtt aaccttcagt agtctattaa ggcattaata cttctctgga catgcgcgtt   60
tgagggtgga ggggtcctgt aagtgcttc atcgtctgtg attactgctt gggatgtgtt   120
ctttggcagc ttgtgagatt actttaccta gtgtttataa agtaggaagt taagtgaatc   180
atagattaga atttaatact cttatggaaa taattttta acatcttaac tgacaatggc   240
gttttttat aca                               253
```

<210> 958

<211> 480

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (57)..(57)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (65)..(65)

<223> n is a, c, g, or t

<400> 958

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ggggntggcg ggggagggtg cccacaaaaa gaatcaggac ttgtactggg aaaaaaaccc   120
ctaaattaat tatatttctt ggacattccc ttcttaaca tcctgaggct taaaaccctg   180
atgcaaaact ctctttcag tggttggaga aattggccga gttcaacat tcaatgcaat   240
gcctattcca aactttaaat ctatctattg caaaacctga aggactgtag ttagcgggga   300
tgatgttaag tgtggccaag cgcacggcgg caagttttca agcactgagt ttctattcca   360
agatcataga ctactaaag agagtacaaa atgcttcctt aatgtcttct ataccagaat   420
gtaaatattt ttgtgttttg ttttaatttg ttgaattct aacacactat atacttcaa   480
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<210> 959

<211> 323

<212> DNA

<213> Homo sapiens

<400> 959

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tcgactctgc tgctcatggg aagaacagaa ttgctcctgc atgcaactaa ttcaataaaa   60
ctgtcttggt agctgatcgc ttggagggtc ctctttttat gttgagttgc tgcttcccgg   120
catgccttca ttttgctatg ggggggcaggc aggggggatg gaaaataagt agaaacaaaa   180
aagcagtggc taagatggtg tagggactgt cataccagtg aagaataaaa ggggtgaagaa   240
taaaagggat atgatgacaa ggttgatcca ctcaagaat tgcttgcttt caggaagaga   300
gatgtgttc aacaagccaa eta                                     323
```

<210> 960

<21 1> 533

<212> DNA

<213> Homo sapiens

<400> 960

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gagccctaag tgatagtat acagaaggta tggcagattt gaatgaaatg atccttcttc   60
tgcccttatg tcgacctgag gaaaaagatg ccaagattgc ctgatcaaa gagaaaacaa   120
aaagtcgcta tttccctgcc ttgaaaaag tgttacagag ccatggacaa gactaccttg   180
ttggcaacaa gctgagccgg gctgacatta gcctgggtgga acttctctac tatgtggaag   240
agcttgactc cagccttacc tccaacttcc ctctgctgaa ggccctgaaa accagaatca   300
gcaacctgcc cacggtgaag aagtttctac agcctggcag cccaaggaag cctcccgcag   360
atgcaaaaagc tttagaagaa gccagaaaaga tttcaggtt ttaataaagc agccatggag   420
gctaagaaca tgcaagacca atattetaaa gttttgcaac aatgaagtgc ttacttaag   480
tgttgattgt gcctgttgta aagctaatga accctttcca attatatgct aat       533
```

<210> 961

<21 1> 472

<212> DNA

<213> Homo sapiens

<400> 961

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ccggcccagg ctactgggc cagtgggagg ctggacatca gcaacaagac ctatgagact   60
gtcgccagcc tgggagcagc caccctcag ggcgagagtg aggactgtcc cccgcccttg   120
ccagtcaaaa actcttctcg gactttggtc caaggggtgt caagacatgc cagtggagat   180
cgttctgagc aaagaaagaa gggagagtaa tagaattggg agggcagaga ctaagggtt   240
ctgcttccca gccctagaaa ttctatcatt gctcagcccc aatgagaaag cagatacacc   300
taagccatca tcaaccacta acatctcaac ttgccagttg ctgggtgctg ggccctggca   360
ggaatgggcc aagccaagca ggggagacta gagageacca atggccaaca cagctgcctg   420
gctggggagg ctgtgctgtt tcccttgag acctgactgg tctgtggttc cc       472
```

<210> 962

<211> 495

<212> DNA

<213> Homo sapiens

<400> 962

```
gccggtgaga tgctctatct gccggctctg tggttccacc acgtccagca gtcccagggc   60
tgcatcgag tgaatttctg gtatgacatg gaatacgacc tcaagtatag ttacttcag   120
ctgctcgact cctcacaa ggcttcaggc ctgactgat ggagcactgg tgaacaccac   180
caagcacgcc tcgggggacg gagccagccc cccctggcc aggtcgagag agcctggagt   240
gtgcatgctg gctgctggcc ccgggtccag catggcttga gatcagcttt ggaggatctt   300
ggaatgtggt cataaggact caaggtgcca ggcaggtctg ggtgagggtt ctcaggaagt   360
tgccacacag gtgagcagag tggggatcag gtgcagcggc acctctccc agcgtgtga   420
```

tggtgggcga gtcactgcgt ctggggcatt ggtgtcctgt cagtaaagag ataataatgg 480
ctgtacctcg cgggg 495

<210> 963
<211> 120
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (43)..(43)
<223> n is a, c, g, or t
<400> 963
cctttccgtt tctgtctatg atgtaggctt ctgaggagaa ccnagaagct tggctttagt 60
ggtagaatga cagaacttag ggatcccttg caggctagaa caaagtctg acccttagac 120

<210> 964
<211> 494
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (335)..(335)
<223> n is a, c, g, or t
<400> 964
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tttactgaca gaagggcaag tcttctctcg tttttgcag ataaaatttt agatgtgttg 120
cattcattgg gtttctatga gatgtggttt tatcagacaa tttttcttt tatttcacaa 180
ttactttaat atctgtaaaa taaagaatta tttaattca ttttccagt cccaaaagtt 240
aaatacaggc cacttactic tttaacaaa tgatatagtt tggctctgtg tccccacca 300
aatctcatgt caaatgttaa tccccgatg tcagnggagg gacctggtgg gaggtgattg 360
gatcatgggg agggatttcc ccttgcctgt tctgttgata gtgaacgagt tctcacgaaa 420
tctgatggtt taaaagtga gcacttctcc ctttctctc tctctctgc tgtgccatgg 480
taagacgtgc ctg 494

<210> 965
<211> 324
<212> DNA
<213> Homo sapiens
<400> 965

tgattttaaa attggcctcc tcaaagtta gcgtcttgca taatgatgat gtacgtctct 60
ggcatattac attttcctt gtatatcart attgaggta ttgtctgat atgacccaaa 120
gaggcaaaac tcagcacagt cctttctgca gtattctaaa ggtcatcaaa cttcagccta 180
gtgagctcgc ttgttgatt tggccggaca tttaagcat ggcagaagtg gtacaagaaa 240
tcattggtatt aagtgaaac cacaccctt agaaaaatcc ttctattaat tcaaataatt 300
tgacgatgct tatgcggttt ctga 324

<210> 966
<211> 478

<212> DNA

<213> Homo sapiens

<400> 966

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ttcacaaact ttatactct ttctgtatat acatttttt tctttaaaaa acaactatgg   60
atcagaatag caacatttag aacacttttt gttatcagtc aatattttta gatagttaga  120
acctggctct aagcctaaaa gtgggcttga ttctgcagta aatcttttac aactgcctcg  180
acacacataa acctttttaa aaatagacac tcccgaagt ctttgtttg tatggtcaca  240
cactgatgct tagatgttcc agtaatctaa tatggccaca gtagtcttga tgaccaaagt  300
ccttttttc catctttaga aaactacatg ggaacaaaca gatcgaacag ttttgaagct  360
actgtgtgtg tgaatgaaca ctcttgcttt attccagaat gctgtacatc tatttggat  420
tgtatattgt ggttgtgtat ttacgcttgg attcatagta acttctatg gaattgat   478
```

<210> 967

<211> 44

<212> DNA

<213> Homo sapiens

<400> 967

```
gaaagcatgt ctgctgggtg tgaccatgtt tcctctcaat aaag                   44
```

<210> 968

<211> 65

<212> DNA

<213> Homo sapiens

<400> 968

```
ggaaagcatg tctgctgggt gtgacatgtt tcctctcaa taaagttccc ctgtgacact   60
caaaa                                           65
```

<210> 969

<211> 494

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (33)..(33)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (35)..(35)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (45)..(54)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (168)..(168)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (203)..(257)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (304)..(304)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (306)..(306)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (348)..(362)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (427)..(427)

<223> n is a, c, g, or t

<400> 969

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gaagaagggg ccatcacagg atgccacccc tgnctgggt tgggrinnnnn nnnncacgac   60
cagccccttc ctgggtattt attctctatt tattgggat aggagaagag gcatcctgcc   120
tgggtgggac agccccttca gcccttctc cctccccgc ctggccangg cagggccacc   180
ccactctacc tcttagctt tennniinnnn rirmirnnnnnn rrmnnnnnnn nrmnnrinnnn  240
rirmnnnnrin rmmnnnnnaga gctgacggga ggccccagct ctgaggggag ggggtccgtg  300
gtanangcct ggggccggta gaggtcccc agggctccct tatgtcnnn nnnnnnm n   360
nnggggtgtg atgtaattag ctctgggggg cagttgggta gatgggtggg ggctcctggt  420
ggcctntgc tgccaggcc acagccgct ttgggttcca tctgctaata aaactggc   480
tctgggacta gaaa                                     494
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<210> 970

<211> 332

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (229)..(252)

<223> n is a, c, g, or t

<400> 970

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gaaaccagg tgctggacca gggccctcag ggaggggacc ctgcggctag agtgggctag   60
gccctggctt tgcccgtag attgaacga atgtgtgtcc cttgagcca aggagagcg   120
caggaggggt gggaccaggc tgggaggaca gagccagcag ctgccatgcc ctctgtctcc  180
ccccaccca gcctagccc ttagcctt caccctgtgc tctggaaann rmmnnnnnnn  240
nnnrinnnnn nnaggaggag caaaaatgag ccagcaccag cgccttggt ttgtgttagc  300
attctctct gaagtgtct gttggcaata aa                                     332
```

<210> 971

<211> 279

<212> DNA

<213> Homo sapiens

<400> 971

```
cttctacagg cttttgggaa gtaggggtgga tgtgggtagg gctgggagga gggggccaca   60
gcttaggttt ggagctctgg atgtacatac ataagtagga gcagtgggac gtgtttctgt   120
cataatgcag gcatgaaggg tggagtgaag tcaggtcata agtttcatgt ttgcttttgt   180
ttgttttgt ttttaatga tgtagcagat gttacagtct tagggatccg ggatgggaga   240
ccccacttta gaaagggtcg tcactccttt aatcctcta                               279
```

<210> 972

<211> 145

<212> DNA

<213> Homo sapiens

<400> 972

```
ctgaacgggc gactgtgtct tgactacctt tcaaaaccag cactgtgtgg gaatgtccgc   60
caggcagagc tcggagcctc attgagacag gggagagaga aagacaaaga ggggaccttc  120
ttccagatgc cttccagtt gtaac                                           145
```

<210> 973

<211> 499

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (200)..(204)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (230)..(230)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (235)..(235)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (239)..(239)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (357)..(357)

<223> n is a, c, g, or t

<400> 973

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cagagaacca gccctgctca cgccatgcc gcccccgcct tcctcttcc ctcttcctc   120
tcctgceca gccctcctt ccttctctg ccggcaaggc agggaccac agtggtgcc   180
tgctccggg aggggaaggan nnnnaggag ggtgggtggg tggaggggn ccttncctnc  240
cagggaatgt gactctcca ggccccagaa tagctcttg acccaagccc aaggcccagc   300
ctgggacaag gctccgaggg tcggctggcc ggagctattt ttacctccg cctccentgc   360
tggtccccc acctgacgtc ttgctgcaga gtctgacact ggattcccc cctcaccac   420
gccccgtgtc cactctgtc ccccgcccta cctccgcccc acccatcat ctgtggacac   480
```


tggagtctgg aataaatgc

499

<210> 974

<211> 419

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (26)..(29)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (44)..(58)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (63)..(139)

<223> n is a, c, g, or t

<400> 974

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tcnnnnnnnn nnnrnnnnnn nnnnrirrrm nnnnnnnnnn nnnnnnnnnn 120
nmnrnnnnnn nnnnnnnnna ggcctctccc tctgtcagtt ccagaacttc tcctccatg 180
accactcta tgggaaactc tcagcacct acctgcgcc cccacacacc tctcgaggca 240
cctcccagac accaatgcc tcaccccag gcaacccac tgctctggcc aatgggactg 300
tgcaagcacc caagcagaag ggagactgag tgcctcagcc tctaccccc tctcctcag 360
ggcagcgcta ggggcctccc ctatgcctca gcccctctc tgctcctgtt tgaatttg 419

<210> 975

<211> 427

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (64)..(64)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (101)..(101)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (120)..(121)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (272)..(326)

<223> n is a, c, g, or t

<400> 975

cgcatcaagg gcataagtta ttgtgaacgt tttgccaat cactgctcaa cagccctgct 60
 agantttgta tgatgctgaa ttattatgca gactaattcc ncccagttga gacacaccan 120
 ncttgttcac ttgtatttat tgaaactgtg gattcttgcc cgtgctgtcc ctgtattta 180
 cttaagcac tgatcactta tcattcattc ggtatgggtt tcctgtccc ttgtacacat 240
 tctggtatga atttgaataa ataacctgct annnnnnnnn nrmnnnnnnn nnnnnnnnnn 300
 nnnimnnnnn nnnnnnnnnn nnnnnncgtg cccaactgag gaacaggaga agaaatcacc 360
 aattgggct ctcagagcta agacacactt attgattctg ttgcacattt tgcactggtt 420
 tatggcg 427

<210> 976
 <211> 457
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (64)..(95)
 <223> n is a, c, g, or t
 <220>
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 <222> (104)..(104)
 <223> n is a, c, g, or t
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 <221> misc_feature
 <222> (226)..(226)
 <223> n is a, c, g, or t
 <220>
 <221> misc_feature
 <222> (344)..(344)
 <223> n is a, c, g, or t
 <220>
 <221> misc_feature
 <222> (387)..(402)
 <223> n is a, c, g, or t
 <400> 976

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 tttrinnnnnn nrinnnnnnnn rinnnnnnnn nnnnnctccc aggnacccgc tgaatttctg 120
 aggccttgc taaagctcag aagtgggtta ggcatttga aaatctgggt cacatcataa 180
 agaactgat ttgaaatgtt ttctatagaa acaagtgcta agtgnaccg tattatactt 240
 gatgttggtc atttctcagt cctatttctc agttctatta tttagaacc tagtcagttc 300
 ttaagatta taactgggtc tacattaaaa taatgcttct cgangtcaga tttacctgt 360
 ttgctgctga gaacatctct gcctaannnn nrmnnnnnnn nncctcagtt caacatgctt 420
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<210> 977
 <211> 493
 <212> DNA
 <213> Homo sapiens

<220>

<221> misc_feature
 <222> (28)..(28)
 <223> n is a, c, g, or t
 <220>

<221> misc_feature
 <222> (44)..(44)
 <223> n is a, c, g, or t
 <220>

<221> misc_feature
 <222> (53)..(53)
 <223> n is a, c, g, or t
 <220>

<221> misc_feature
 <222> (73)..(74)
 <223> n is a, c, g, or t
 <220>

<221> misc_feature
 <222> (88)..(88)
 <223> n is a, c, g, or t
 <220>

<221> misc_feature
 <222> (95)..(96)
 <223> n is a, c, g, or t
 <220>

<221> misc_feature
 <222> (98)..(98)
 <223> n is a, c, g, or t
 <220>

<221> misc_feature
 <222> (108)..(123)
 <223> n is a, c, g, or t
 <220>

<221> misc_feature
 <222> (351)..(351)
 <223> n is a, c, g, or t
 <220>

<221> misc_feature
 <222> (364)..(378)
 <223> n is a, c, g, or t
 <400> 977

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 gtgtgtacag ccnngtcacc gtgcagcnc t cgtntntnga ggacaaannn nnnnnrirmnn 120
 nnntggaggc agt gatggag aagcaaaaga agaaggtgga aggcgaggtg gaaatggagg 180
 tcatttgacc tgccaggcgc ccttcgcaa gagtgacgag gccccgtggg agaacggact 240
 cctcagactc tcccaatag cggaagtcga tcttctgaag gatggccaat ctgctccggc 300
 cctggtcttc ccccatccg gtggacagac ttaacgatc ttgctgcagt ncctccggag 360
 aggrinnnnnn nnnnnnnnga gtggggaggg cgtggagaca gtctacggaa agcgctagca 420
 gacccccgag aggggtgcagt ggagccctga gcattgtaat atgcggccca gcctataaac 480
 agcctccgtg ctt 493

<210> 978
 <211> 1536
 <212> DNA
 <213> Homo sapiens
 <400> 978

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cccacacaca gcctactttc caagcggagc catgtctgtt aacggcaatg cggctgcaac   180
ggcgggaagaa aacagcccaa agatgagagt gattcgcgtg ggtaccgca agagccagct   240
tgctcgcata cagacggaca gtgtggtggc aacattgaaa gcctcgtacc ctggcctgca   300
gtttgaaatc attgctatgt ccaccacagg ggacaagatt ctgatactg cactctctaa   360
gattggagag aaaagcctgt ttaccaagga gcttgaacat gccctggaga agaatgaagt   420
ggacctgggt gttaactcct tgaaggacct gccactgtg ctccctcctg gcttcacat   480
cggagccatc tgcaagcggg aaaaccctca tgatgctgtt gtcttcacc caaaatttgt   540
tgggaagacc ctagaacccc tgccagagaa gagtgtggtg ggaaccagct ccctgcgaag   600
agcagcccgag ctgcagagaa agtcccgcga tctggagttc aggagtattc ggggaaacct   660
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atgcatgtat gctgtgggcc agggggcctt gggcgtggaa gtgcgagcca aggaccagga   840
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aagggccttc ctgaggcacc tggaaaggagg ctgcagtgtg ccagtagccg tgcatacagc   960
tatgaaggat gggcaactgt acctgactgg aggagtctgg agtctagacg gctcagatag  1020
catacaagag accatgcagg ctaccatcca tgcctgtcc cagcatgaag atggccctga  1080
ggatgaccca cagttggtag gcatcactgc tcgtaacatt ccacgagggc ccagttggc  1140
tgcccagaac ttgggcatca gcctggccaa ctgtgtctg agcaaaggag ccaaaaacat  1200
cctggatgtt gcacggcagc ttaacgatgc ccattaactg gttgtgggg cacagatgcc  1260
tgggttgctg ctgtccagt cctacatccc gggcctcagt gccccattct cactgctatc  1320
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cacctgggg ccttgatgac tgcctgcct cctcagatg tgggggcttc atctcttag  1440
agaagtcaa gcaacagcct ttgaatgtaa ccaatcctac taataacca gttctgaagg  1500
taaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaa
                                     1536

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<210> 979
 <211> 1524
 <212> DNA
 <213> Homo sapiens
 <400> 979

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agcagacaga ggacttcat taaggaaggt gtctgtgcc ctgaccctac aagatgcaa   60
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cggctgaaga ggccgctggg atcggcaccc tgacagtgat cctgggagtc ttactgtca  180
tcggctgttg gtattgtaga agacgaaatg gatacagagc ctgtatggat aaaagtcttc  240
atgttgccac tcaatgtgcc ttaacaagaa gatgcccaaga agaagggtt gatcatcggg  300
acagcaaagt gtctctcaa gagaaaaact gtgaacctgt ggttcccaat gctccacctg  360
cttatgagaa actctctgca gaacagtcac caccacctta ttaccttaa gagccagcga  420
gacacctgag acatgctgaa attatttctc tcacactttt gcttgaattt aatacagaca  480
tctaattgtc tctttggaa tgggttagga aaaatgcaag ccatctctaa taataagtca  540
gtgttaaaat tttagtaggt ccgctagcag tactaatcat gtgaggaaat gatgagaaat  600
attaaattgg gaaaactcca tcaataaatg ttgcaatgca tgatactatc tgtgccagag  660
gtaatgttag taaatccatg gtgtatttt ctgagagaca gaattcaagt ggggtattctg  720
gggcatcca atttctctt acttgaaatt tggctaataa caaactagtc aggttttcga  780

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